ORDER NO. MTNC050950C1

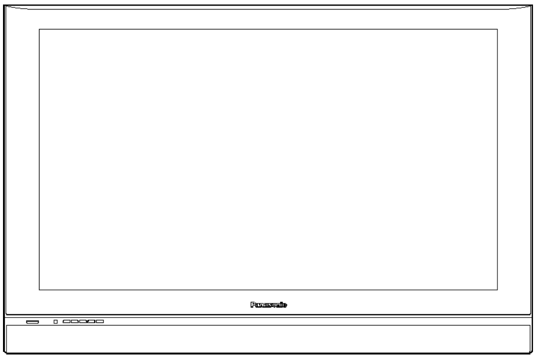
B19 Canada: B05

Service Manual

Progressive Wide Plasma Display

TH-42PM50U

GP8DU Chassis



SPECIFICATIONS

Specifications

wer Source	AC 120 V, 50/60 Hz		
wer Consumption	Maximum : 380 W		
	Stand-by condition : 0.6 W		
sma Display panel	Drive method : AC type 42-inch, 16 : 9 aspect ratio		
reen Size	Approx. 36 7/32 " (920mm) (W) × 20 25/64 “ (518 mm) (H) × 41 9/16 “ (1056 mm) (diagonal)		
nensions (W × H × D)	Approx. 42 3/64 “ (1068 mm) × 27 39/64 “ (701 mm) × 3 51/64 “ (96.5 mm)		
ss (Weight)	71.871 lb. (32.6 kg) Net		
und			
Speaker	4 23/32 “ (120 mm) × 2 23/64 “ (60 mm) × 2 pcs 6 Ω		
Audio Output	16 W [8 W + 8 W] (10 % THD)		
ATURES	3D Y/C FILTER	HDMI	
cessories Supplied	Remote control: EUR646539		
	AA Battery × 2		
	AC Cord		
	Pedestal		
	Cable clamper × 2		
erating Conditions	Temperature : 32 °F - 104 °F (0 ° - 40 °C)		
	Humidity : 20 % - 80 % (non-condensing)		
nnection Terminals	AV INPUT 1- 2	VIDEO	1.0 Vp-p (75 Ω)
		(Phono Jack Type)	

	S-VIDEO (Mini DIN 4-pin)	Y : 1.0 Vp-p (75 Ω), C : 0.286 Vp-p Ω)
	AUDIO L-R (Phono Jack Type × 2)	0.5 Vrms
AV PROG. OUT	VIDEO (Phono Jack Type)	1.0 Vp-p (75 Ω)
	AUDIO L-R (Phono Jack Type × 2)	0.5 Vrms
COMPONENT VIDEO INPUT1-2	Y	1.0 Vp-p (including synchronizatio
	PB/PR	± 0.35 Vp-p
	AUDIO L-R (Phono Jack Type × 2)	0.5 Vrms
HDMI	HDMI type A Connector	
	AUDIO L-R (Phono Jack Type × 2)	0.5 Vrms

ote:

esign and Specifications are subject to change without notice. Weight and Dimensions shown are pproximate.

⚠ **WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic®

1. Applicable signals

VIDEO input

	signal name	horizontal frequency(kHz)	vertical frequency(Hz)
1	NTSC	15.73	59.94

Applicable input signals (* mark)

	signal name	horizontal frequency(kHz)	vertical frequency(Hz)	COMPONENT	HDMI
1	525 (480) /60i	15.73	59.94	*	*
2	525 (480) /60p	31.47	59.94	*	*
3	750 (720) /60p	45.00	59.94	*	*
4	1,125 (1,080) /60i	33.75	59.94	*	*

Note: Signals without above specification may not be displayed properly.

2. Safety Precautions

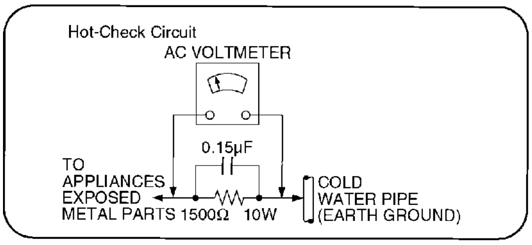
2.1. General Guidelines

1. **When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.**
2. **After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.**
3. **After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.**

2.1.1. Leakage Current Cold Check

1. **Unplug the AC cord and connect a jumper between the two prongs on the plug.**
2. **Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1M Ω and 5.2M Ω . / When the exposed metal does not have a return path to the chassis, the reading must be ∞.**

Figure 1


Hot-Check Circuit
AC VOLTMETER
0.15µF
TO APPLIANCES EXPOSED METAL PARTS
1500Ω
10W
COLD WATER PIPE (EARTH GROUND)

2.1.2. Leakage Current Hot Check (See Figure 1.)

1. **Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.**
2. **Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 µ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.**
3. **Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to**

measure the potential across the resistor.

4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

3. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.

6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparable conductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.**

   Caution

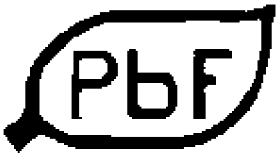
   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. **Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).**

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety. These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

4. About lead free solder (PbF)

Note: Lead is listed as (Pb) in the periodic table of elements.
In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.
The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.
This model uses Pb Free solder in it's manufacture due to environmental conservation issues.
For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.
PCBs manufactured using lead free solder will have the PbF within a leaf Symbol



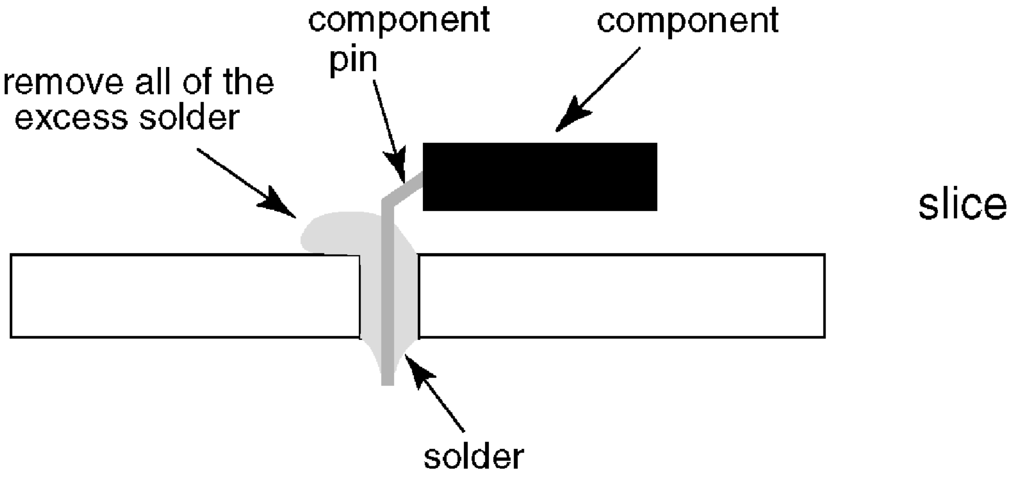
stamped on the back of PCB.

Caution

- Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 °F (30~40 °C) higher. Please use a high temperature soldering iron and set it to 700 ± 20 °F (370

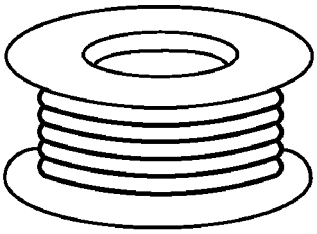
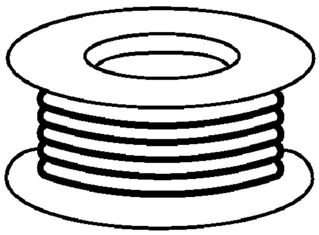
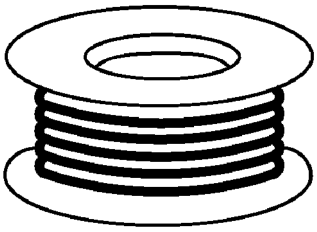
± 10 °C).

- **Pb free solder will tend to splash when heated too high (about 1100 °F or 600 °C).**
  If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.
- **After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)**

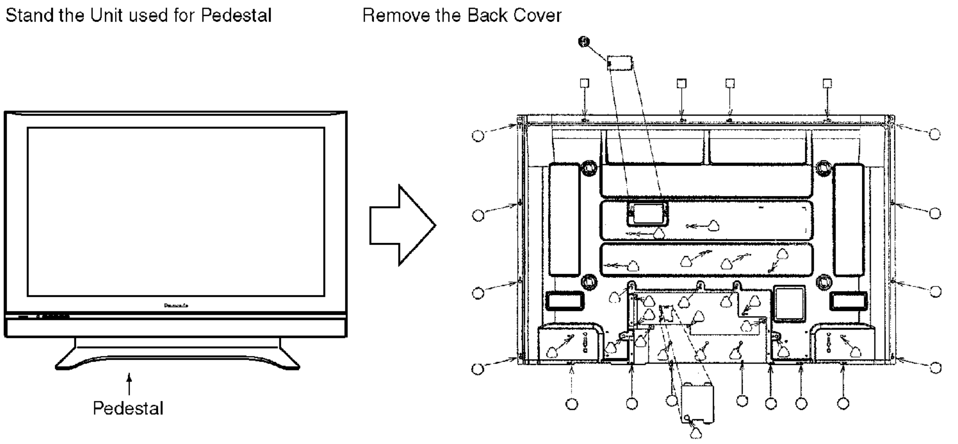


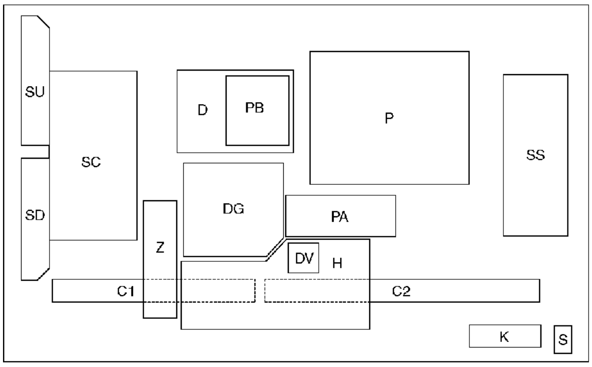
Suggested Pb free solder

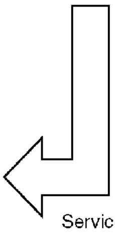
There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also be used.

0.3mm X 100g	0.6mm X 100g	1.0mm X 100g
		

5. Service Hint


Stand the Unit used for Pedestal
Remove the Back Cover
Pedestal


SU
SC
SD
D
PB
DG
Z
P
PA
DV
H
SS
C1
C2
K
S


Service Position

Remove:
15 screws (○) XTB4+15AFJK
1 screw (●) XTB4+12GFJK
4 screws (□) THEL0439
23 screws (△) THEL0429

Board Name	Function	Board Name	Function
P	Power Supply	C1	Data Driver (Left)
PA	DC-DC Converter, Power SOS	C2	Data Driver (Right)
PB	Audio Power	SC	Scan Drive
H	AV Terminal, AV Switch	SU	Scan out (Upper)
DV	HDMI Interface None serviceable. DV-Board should be exchanged for service.	SD	Scan out (Lower)
		SS	Sustain Drive
		K	Remote receiver, Keyscan
DG	Digital Signal Processor	S	Power Switch
Z	Speaker out, Audio AMP		
D	Format Converter, Plasma AI Processor		

6. Plasma panel replacement method

6.1. Remove the Back cover.

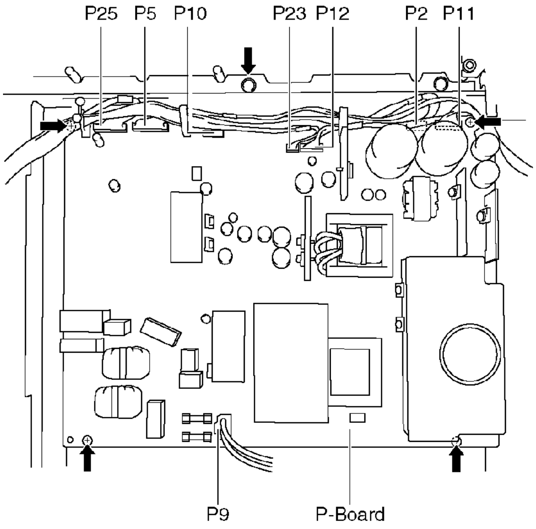
1. See Service hint (Section 5).

6.2. Remove the P-Board.

Caution:

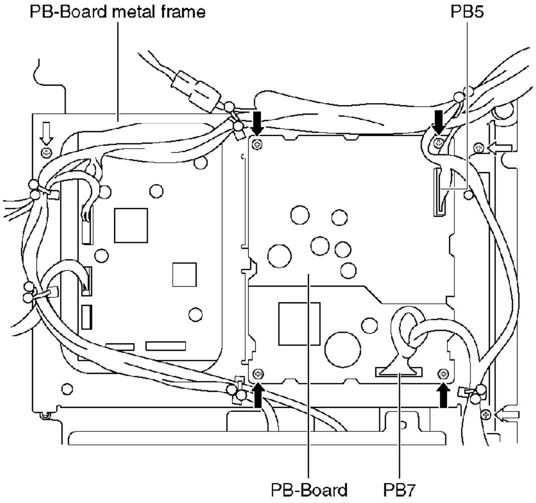
To remove P.C.B., wait 1 minute after power was off for discharge from electrolisis capacitors.

1. **Disconnect the couplers (P2, P5, P9, P10, P11, P12, P23 and P25).**
2. **Remove the screws (×5➡) and remove the P-Board.**


P25
P5
P10
P23
P12
P2
P11
P9
P-Board

6.3. Remove the PB-Board

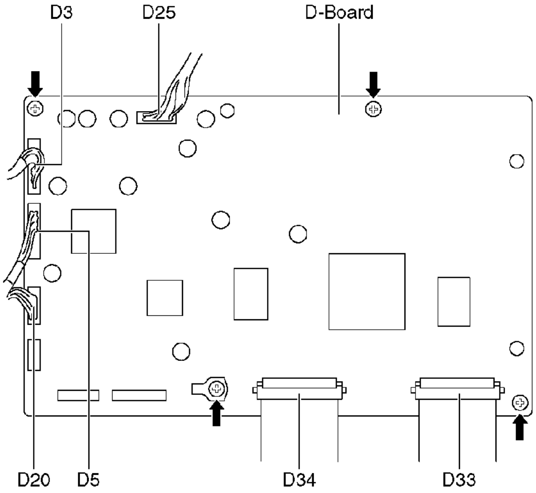
1. **Unlock the cable clampers to free the cable.**
2. **Disconnect the couplers (PB5 and PB7).**
3. **Remove the screws (×3⇨) and remove the PB-Board metal frame.**
4. **Remove the screws (× 4➡) and remove the PB-Board.**


PB-Board metal frame
PB5
PB-Board
PB7

6.4. Remove the D-Board

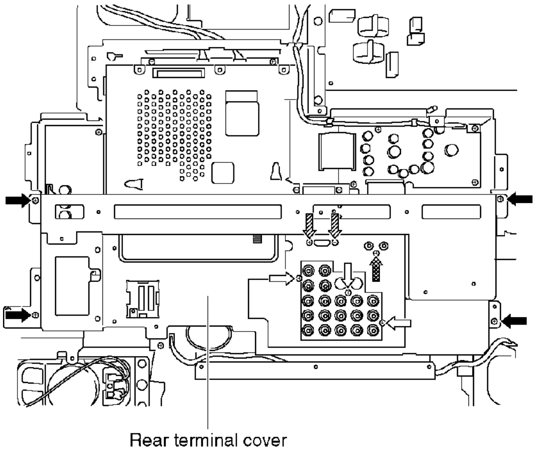
1. **Remove the PB-Board.**

2. **Disconnect the couplers (D3, D5, D20 and D25) and**
3. **Disconnect the flexible cables (D33 and D34).**
4. **Remove the screws (×4➡) and remove the D-Board.**


D3
D25
D-Board
D20
D5
D34
D33

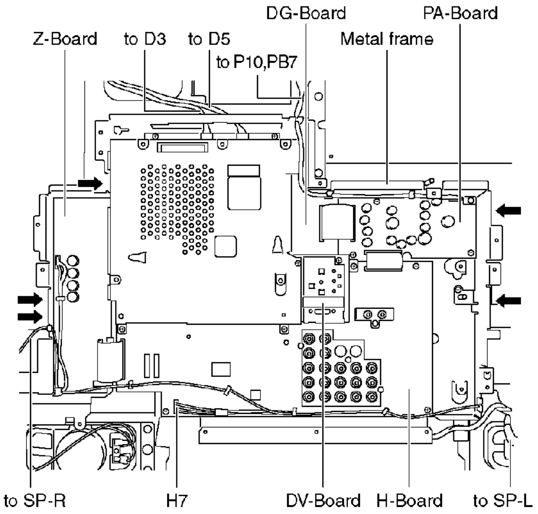
6.5. Remove the rear terminal cover

1. **Remove the screws (×4➡, ×3⇨, ×2▨, and ×1▩).**
2. **Remove the rear terminal cover.**


Rear terminal cover

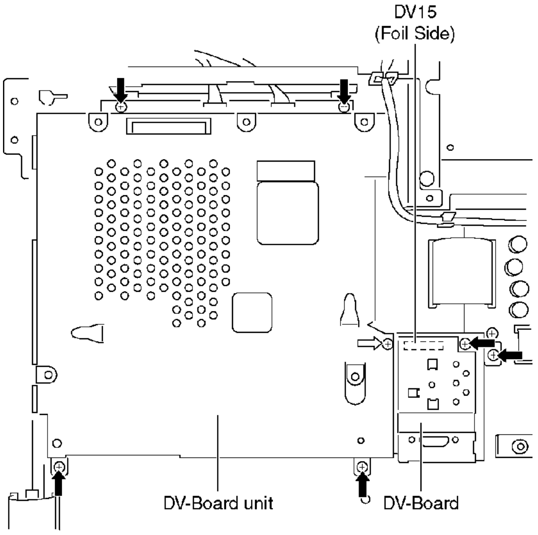
6.6. Remove the metal frame

1. **Unlock the cable clampers to free the cable.**
2. **Disconnect the couplers (D3, D5, H7, P10 and PB7) and relay connector (SP-L and SP-R).**
3. **Remove the screws (×5➡) remove the metal frame.**


DG-Board
PA-Board
Z-Board
to D3
to D5
Metal frame
to P10,PB7
to SP-R
H7
DV-Board
H-Board
to SP-L

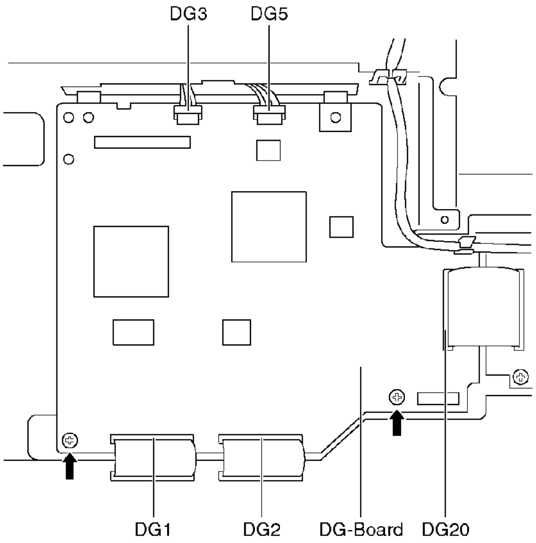
6.7. Remove the DV-Board

1. Unlock the cable clampers to free the cable.
2. Remove the screws (×6➡ and ×1⇨).
3. Remove the DV-Board.
4. Remove the DV-Board unit.
   (Be careful the coupler (DV15) when remove the DV-Board unit.)


DV15
(Foil Side)
DV-Board unit
DV-Board

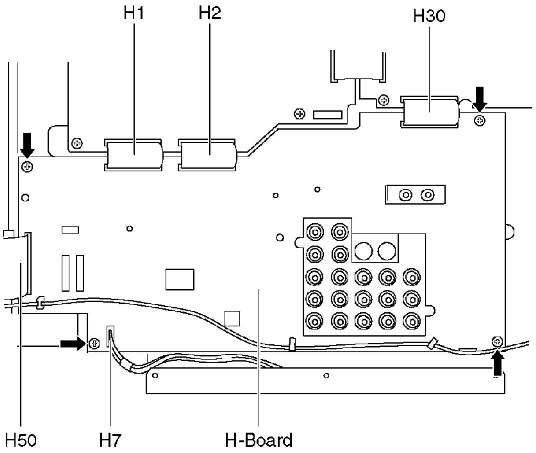
6.8. Remove the DG-Board

1. Unlock the cable clampers to free the cable.
2. Disconnect the couplers (DG3 and DG5).
3. Disconnect the flexible cables (DG1, DG2 and DG20).
4. Remove the screws (×2➡) and remove the DG-Board.


DG3
DG5
DG1
DG2
DG-Board
DG20

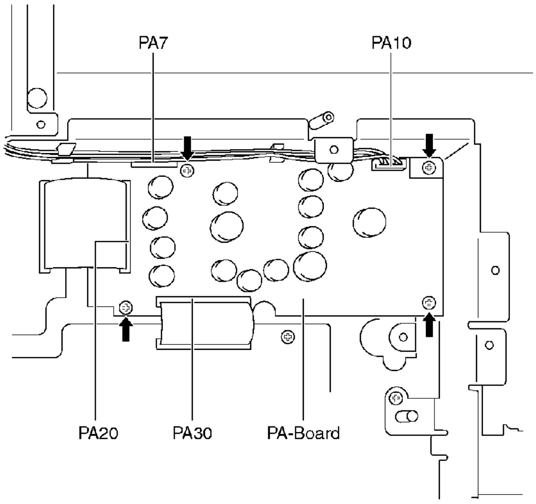
6.9. Remove the H-Board

1. Unlock the cable clampers to free the cable.
2. Disconnect the coupler (H7).
3. Disconnect the flexible cables (H1, H2, H30 and H50).
4. Remove the screws (×4➡) and remove the H-Board.


H1
H2
H30
H50
H7
H-Board

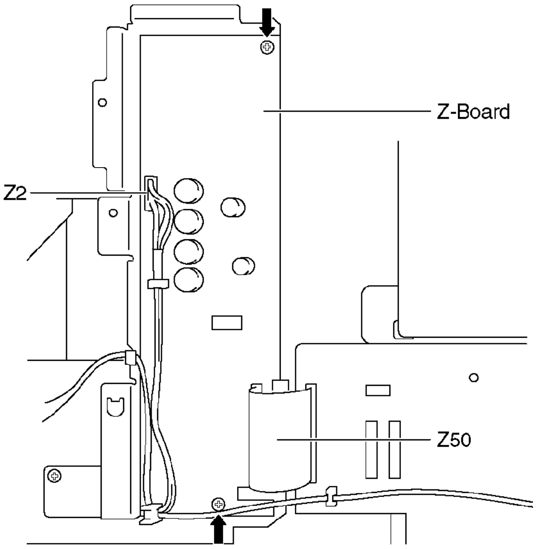
6.10. Remove the PA-Board

1. Unlock the cable clampers to free the cable.
2. Disconnect the couplers (PA7 and PA10).
3. Disconnect the flexible cables (PA20 and PA30).
4. Remove the screws (×4➡) and remove the PA-Board.


PA7
PA10
PA20
PA30
PA-Board

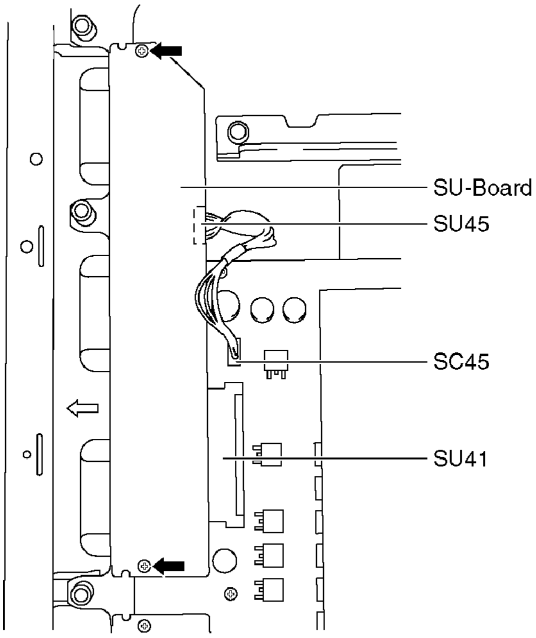
6.11. Remove the Z-Board

1. Unlock the cable clampers to free the cable.
2. Disconnect the coupler (Z2).
3. Disconnect the flexible cable (Z50).
4. Remove the screws (×2➡) and remove the Z-Board.

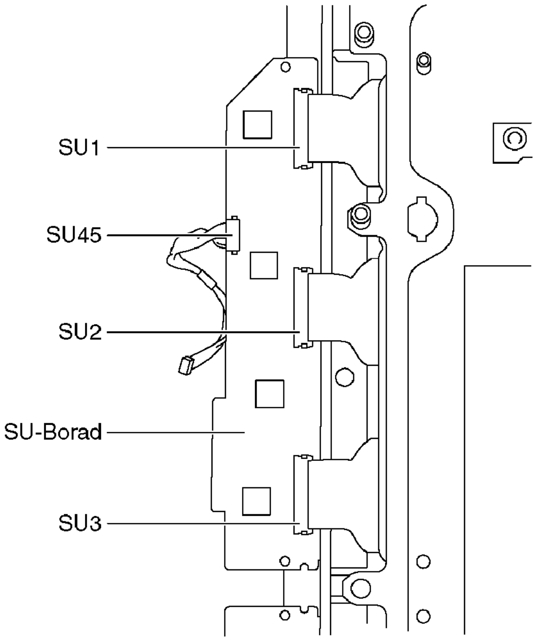

Z-Board
Z2
Z50

6.12. Remove the SU-Board

1. Remove the screws (×2➡)
2. Slide the SU-Board to the left to disconnect from a coupler (SC41 - SU41) on the SC-Board and disconnect a coupler (SU45 or SC45).

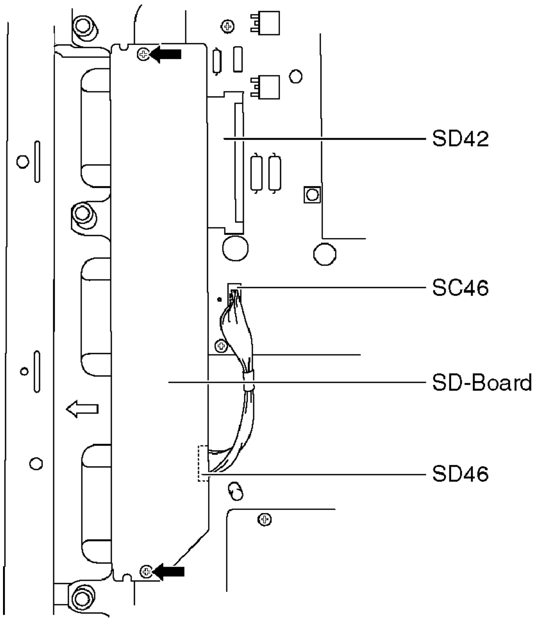

SU-Board
SU45
SC45
SU41

3. **Disconnect the flexible cables (SU1, SU2 and SU3) connected to the SU-Board, and remove the SU-Board.**

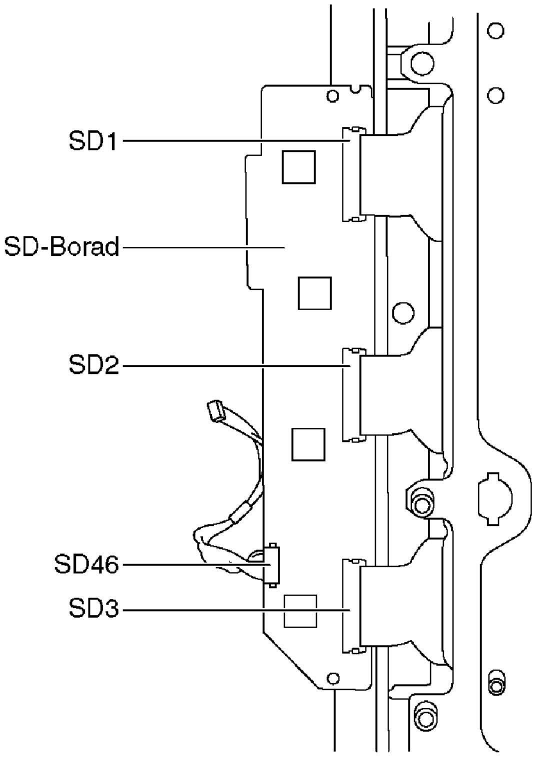

SU1
SU45
SU2
SU-Borad
SU3

6.13. Remove the SD-Board

1. **Remove the screws (×2➡)**
2. **Slide the SD-Board to the left to disconnect from a coupler (SC42 - SD42) on the SC-Board and disconnect a coupler (SD46 or SC46).**


SD42
SC46
SD-Board
SD46

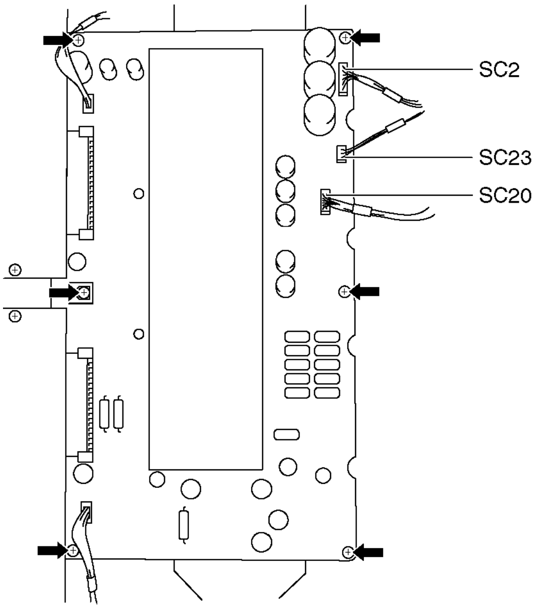
3. **Disconnect the flexible cables (SD1, SD2 and SD3) connected to the SU-Board, and remove the SD-Board.**


SD1
SD-Borad
SD2
SD46
SD3

6.14. Remove the SC-Board

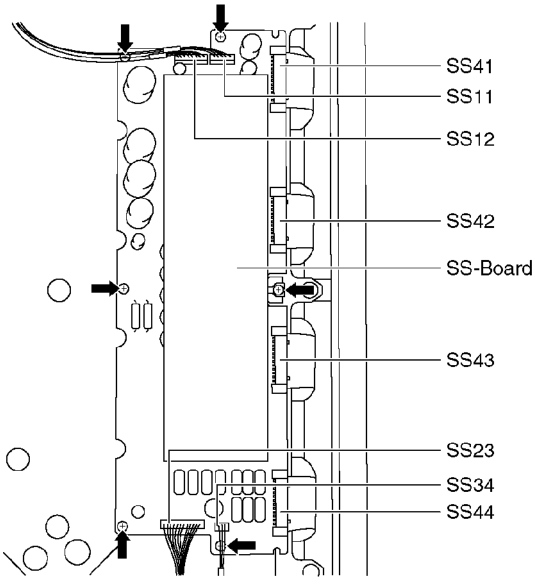
1. **Disconnect the couplers (SC2, SC20 and SC23).**

2. **Remove the screws (×6➡) and remove the SC-Board.**


SC2
SC23
SC20

6.15. Remove the SS-Board

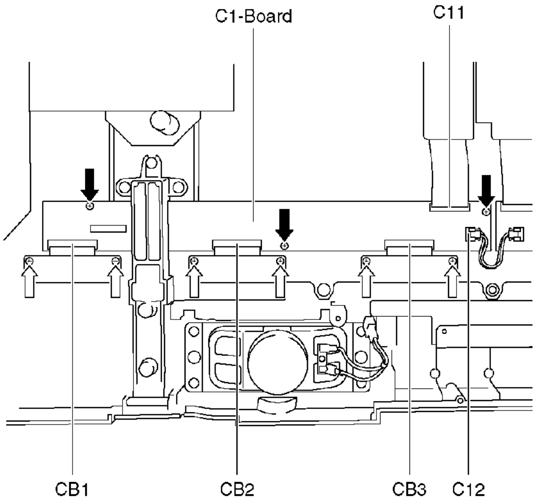
1. Disconnect the couplers (SS11, SS12, SS23 and SS34).
2. Disconnect the flexible cables (SS41, SS42, SS43 and SS44).
3. Remove the screws (×6➡) and remove the SS-Board.


SS41
SS11
SS12
SS42
SS-Board
SS43
SS23
SS34
SS44

6.16. Remove the C1-Board

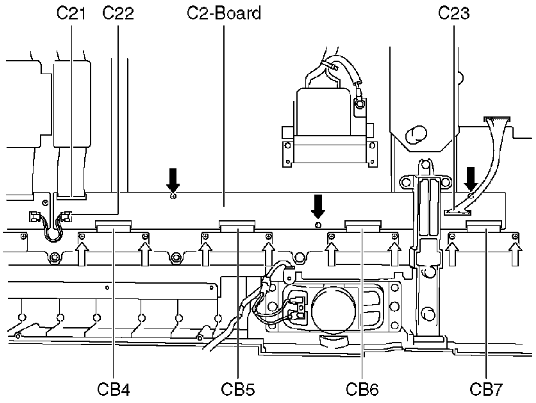
1. Remove the flexible cables holder fastening screws (×6⇨).
2. Disconnect the flexible cables (CB1, CB2 and CB3).
3. Disconnect the flexible cable (C11).
4. Disconnect the coupler (C12).

5. **Remove the screws (×3➡) and remove the C1-Board.**


C1-Board
C11
CB1
CB2
CB3
C12

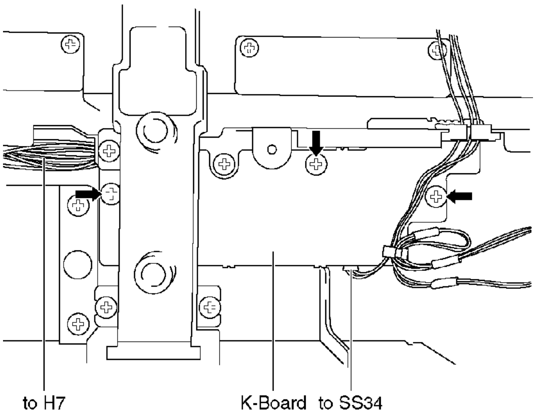
6.17. Remove the C2-Board

1. **Remove the flexible cables holder fastening screws (×8⇨).**
2. **Disconnect the flexible cables (CB4, CB5, CB6 and CB7).**
3. **Disconnect the flexible cable (C21).**
4. **Disconnect the couplers (C22 and C23).**
5. **Remove the screws (×3➡) and slide the C2-Board to the left and remove the C2-Board.**


C21
C22
C2-Board
C23
CB4
CB5
CB6
CB7

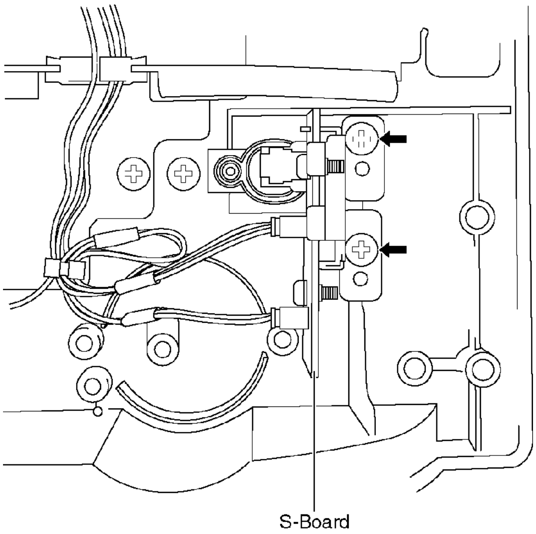
6.18. Remove the K-Board

1. **Unlock the cable clampers to free the cable.**
2. **Disconnect the couplers (H7 and SS34).**
3. **Remove the screws (×3➡) and remove the K-Board.**

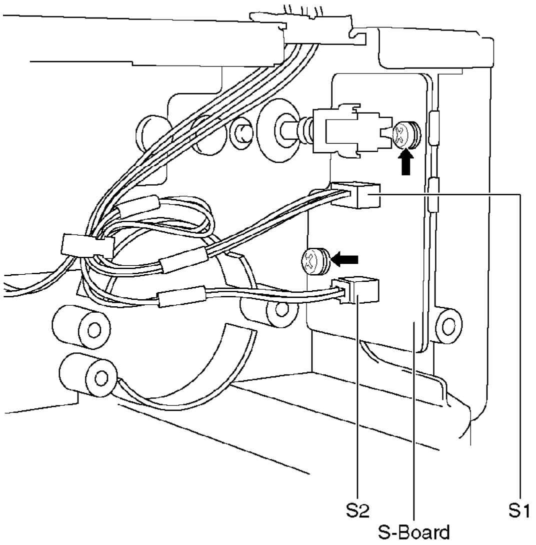

to H7
K-Board
to SS34

6.19. Remove the S-Board

1. Remove the screw (×2➡) and remove the S-Board unit.

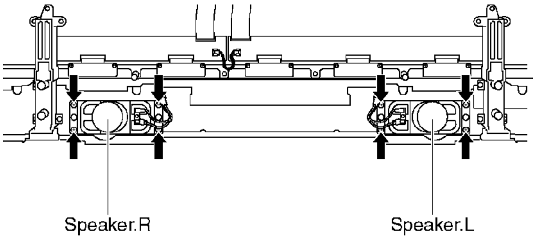


2. Unlock the cable clampers to free the cable.
3. Disconnect the couplers (S1 and S2).
4. Remove the screws (×2➡) and remove the S-Board.


S2
S-Board
S1

6.20. Remove the Speaker L, R

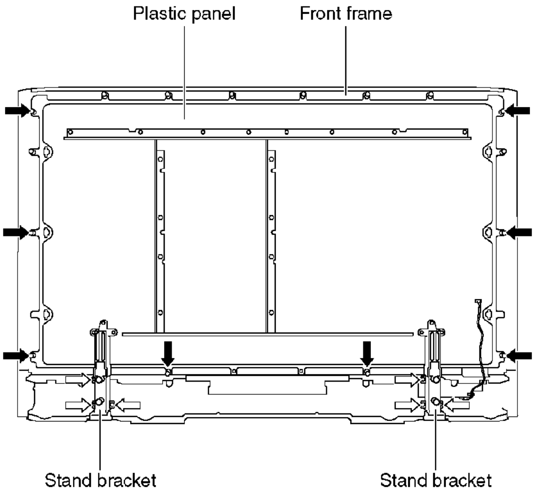
1. Remove the screw (×8➡) and remove the Speaker L, R.


Speaker.R
Speaker.L

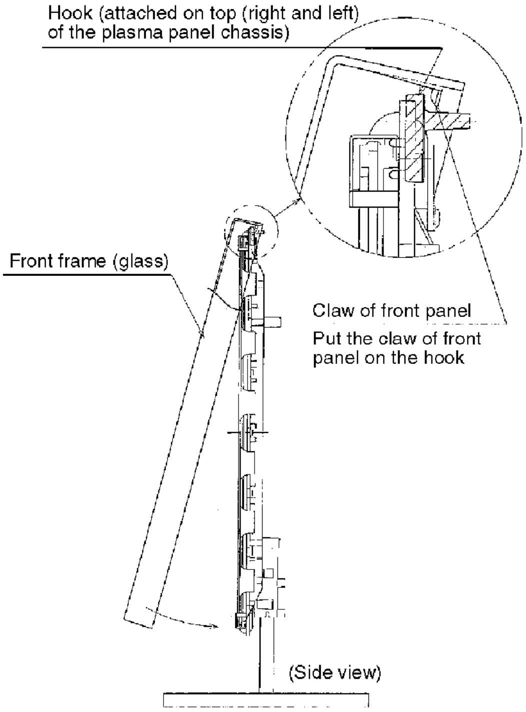
6.21. Remove the Plasma panel section from the Front frame (glass)

1. Remove the front frame and the plasma panel fastening screw (×8➡).

2. Remove the front frame and the stand brackets fastening screw (×6 ⇨).


Plastic panel
Front frame
Stand bracket
Stand bracket

3. For leaving the plasma panel from the front frame, pull the bottom of the front frame forward, lift, and remove.

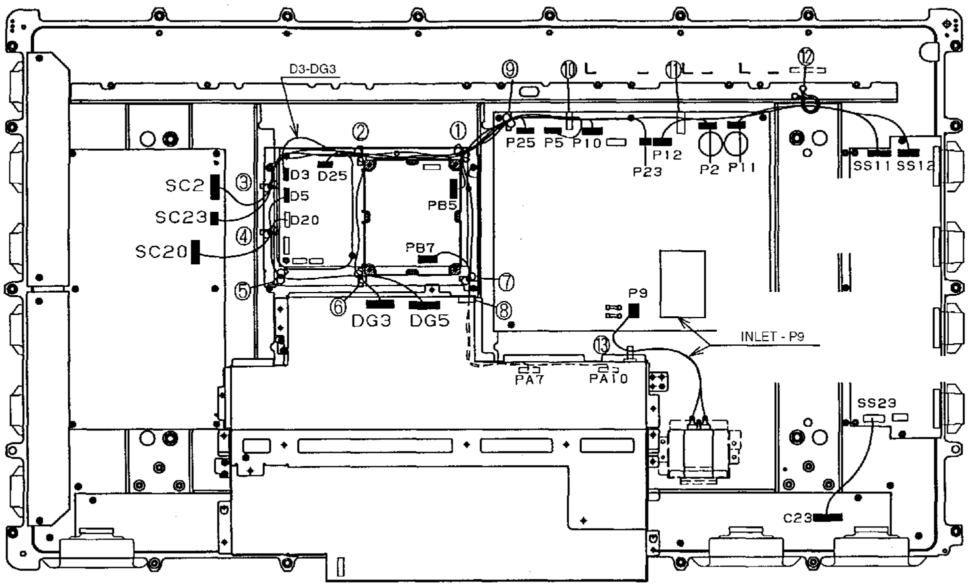

Hook (attached on top (right and left) of the plasma panel chassis)
Front frame (glass)
Claw of front panel
Put the claw of front panel on the hook
(Side view)

6.22. Replace the plasma panel (finished).

1. **Place the new plasma panel (finished) on the flat surface of the table (covered by a soft cloth), with the plasma panel surface facing downward.**
2. **Attach the C1-Board and the C2-Board, connect the flexible cables (×7) from the Plasma panel to the C1-Board and C2-Board, and fix the flexible cable holders.**
3. **Attach the Hooks (left, right) and fit the stand brackets (left, right) to the new plasma panel.**
4. **Place the plasma panel section on the servicing stand.**
5. **Attach the front frame and the each P.C.Board and so on, to the new plasma panel.**
   *** When fitting the front frame, be careful not to allow any debris, dust or handling residues to remain between the front glass and plasma panel.**

7. Location of Lead Wiring

7.1. Lead of Wiring (1)

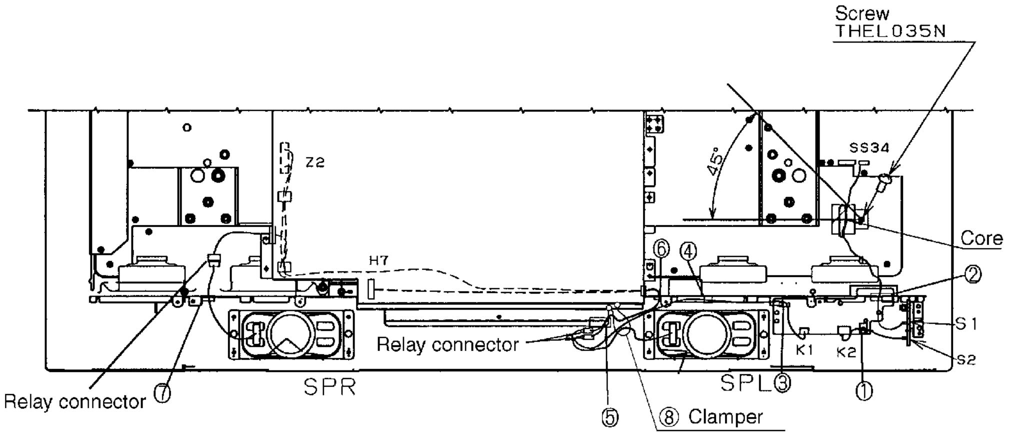

D3-DG3
⑨
⑩
⑪
⑫
②
①
P25
P5
P10
P12
P23
P2
P11
SS11
SS12
SC2
③
D3
D25
D5
SC23
D20
PB5
④
SC20
PB7
⑤
⑦
⑥
⑧
DG3
DG5
P9
INLET - P9
⑬
PA7
PA10
SS23
C23

7.2. Lead of Wiring (2)

CON : No. —— CON : No.	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬
SC2 —— P2	○	○	○						○	○	○		
SC23 —— P23	○	○	○						○	○			
SC20 —— D20				○									
DG3 —— D3		○				○							
DG5 —— D5				○	○	○							
D25 —— P25	○	○							○				
PB5 —— P5	○								○	○			
PA7 —— PB7							○	○					
PA10 —— P10	○						○	○	○	○			
SS11 —— P11												○	
SS12 —— P12											○	○	
SS23 —— C23													
INLET —— P9													○

Connector Connection: P2, P5, P9, P10, P11, P12, P23,, P25
D3, D5, D25,
PB7, PB5,
SC2, SC20, SC23,
SS11, SS12,
DG3, DG5,
C23

7.3. Lead of Wiring (3)


Screw
THEL035N
SS34
Core
②
S1
S2
K1
K2
Z2
H7
45°
⑥
④
Relay connector
Relay connector
⑦
SPR
SPL
③
①
⑤
⑧ Clamper

CON : No. —— CON : No.	①	②	③	④	⑤	⑥	⑦	⑧			
S1 —— SS34		○									
K2 —— H7			○	○	○	○		○			
SP L —— Z2					○	○		○			
SP R —— Z2							○				
S2 —— K2	○										

8. Self-check Function

When symptoms like "the power fails sometimes" or "sometimes there is no picture and/or sound" can not be confirmed at the time of servicing, the self-check function can be used to confirm the occurrence and to find the defective circuit.
In case of "power failure", flashing of the "POWER" indication (red) at the front of the unit can be used to narrow down the +B line.

8.1. How to access

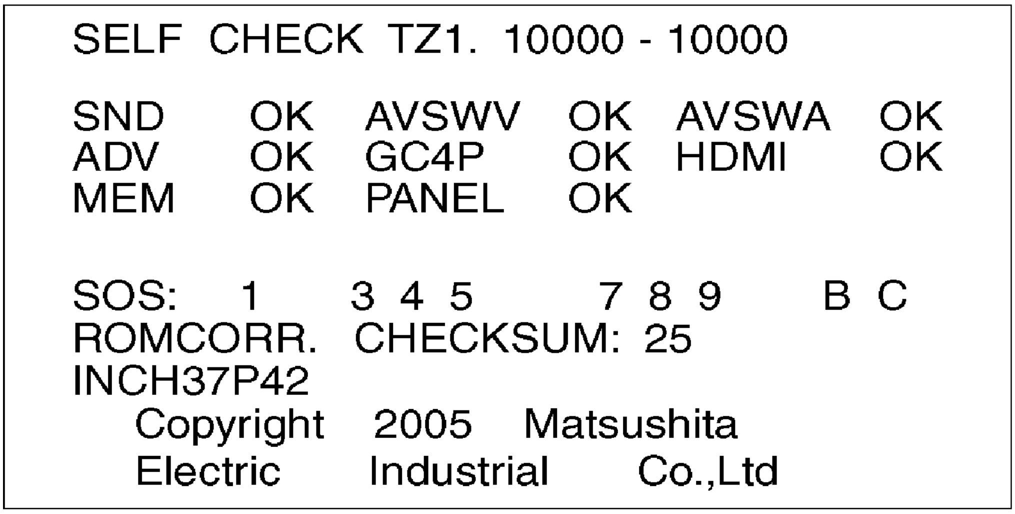
8.1.1. Access

Produce TV reception screen and, while pressing [VOLUME-] button on the main unit, press [SLEEP] button on the remote controller unit simultaneously.

8.1.2. Exit

Remove the AC cord.

8.1.3. Screen display



```
SELF  CHECK  TZ1.  10000 - 10000

SND      OK   AVSWV   OK   AVSWA    OK
ADV      OK   GC4P    OK   HDMI     OK
MEM      OK   PANEL   OK


SOS:    1     3  4  5       7  8  9      B  C
ROMCORR.  CHECKSUM:  25
INCH37P42
    Copyright   2005   Matsushita
    Electric     Industrial     Co.,Ltd
```

Display	Ref.No.	Description	Board
SND	IC2608	BBE Viva	H-Board
AVSWV	IC2602	Video SW	H-Board
AVSWA	IC2605	Audio SW	H-Board
ADV	IC4018	10Bits A/D	DG-Board
GC4P	IC4026	GC4PRO	DG-Board
HDMI	IC5003	HDMI I/F Receiver	DV-Board
MEM	IC4008	EEPROM	DG-Board
PANEL	IC9007	SUB MICON	D-Board

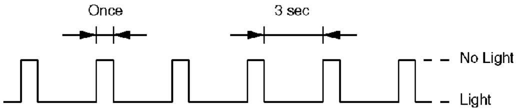
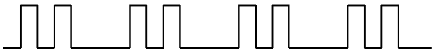
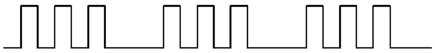
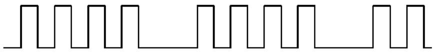
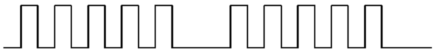
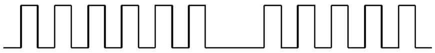
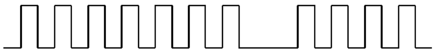
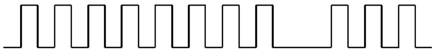
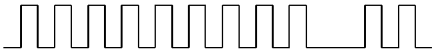
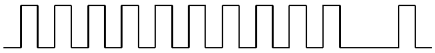
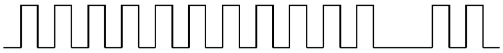
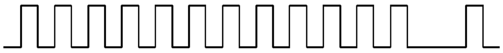
8.2. Power LED Blinking timing chart

1. Subject

Information of LED Flashing timing chart.

2. Contents

When an abnormality has occurred the unit, the protection circuit operates and reset to the stand by mode. At this time, the defective block can be identified by the number of blinkes of the Power LED on the front panel of the unit.

Blinking Times	Blinking timing	Contents & Check point
1		No particular check point
2		12V SOS
3		3.3V SOS
4		Power SOS
5		5V SOS
6		Scan Driver (SC Energy recovery circuit)
7		Scan Driver (SC floating voltage area)
8		SUS Driver (SS Energy recovery circuit)
9		Panel Status
10		Sub 5V Down BS 9V Down Main 9V Down Main 3.3V Down
11		FAN SOS
12		Sound SOS

3. Remarks

Above Fan function is operated during the fans are installed.

8.3. No Power

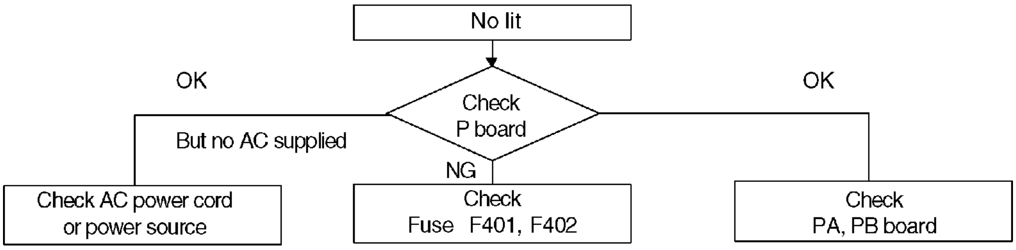
[First check point]

There are following 2 states of No Power indication by power LED.

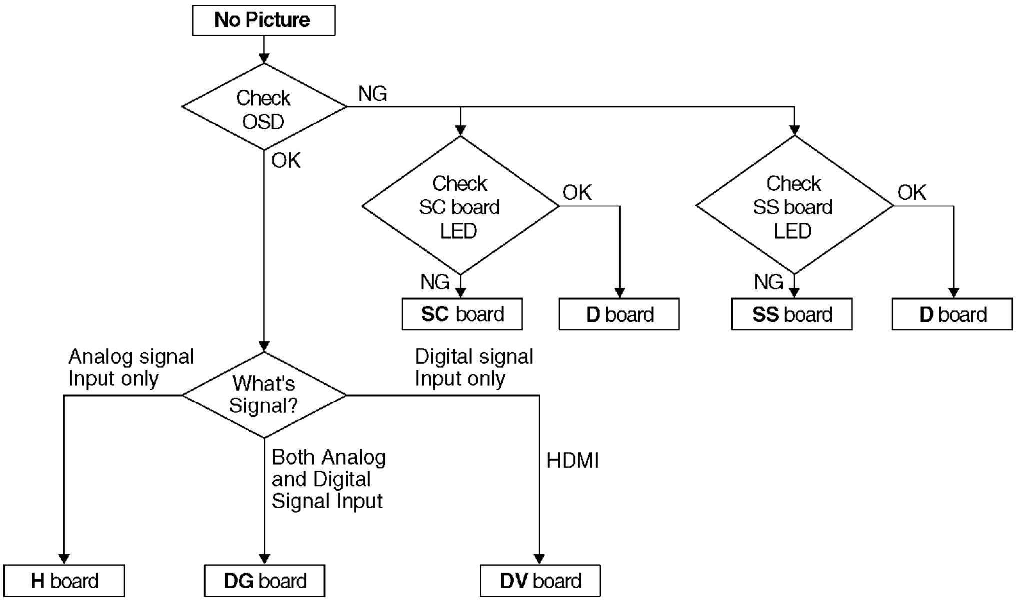
1. No lit

2. Red is lit then turns red blinking a few seconds later. (See 8.2.)

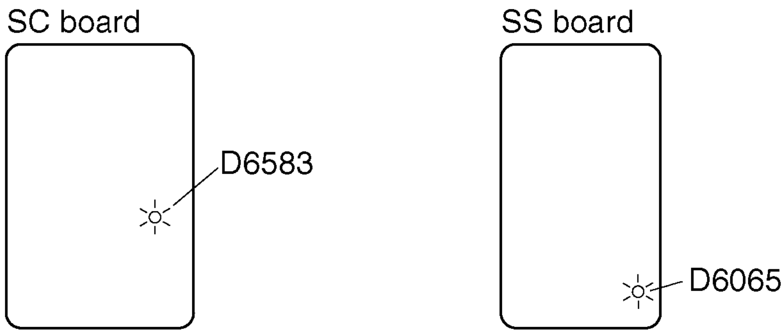
1. No lit


No lit
Check
P board
OK
But no AC supplied
OK
NG
Check AC power cord
or power source
Check
Fuse F401, F402
Check
PA, PB board

8.4. No Picture


No Picture
Check
OSD
NG
OK
Check
SC board
LED
OK
NG
SC board
D board
Check
SS board
LED
OK
NG
SS board
D board
Analog signal
Input only
What's
Signal?
Digital signal
Input only
Both Analog
and Digital
Signal Input
HDMI
H board
DG board
DV board

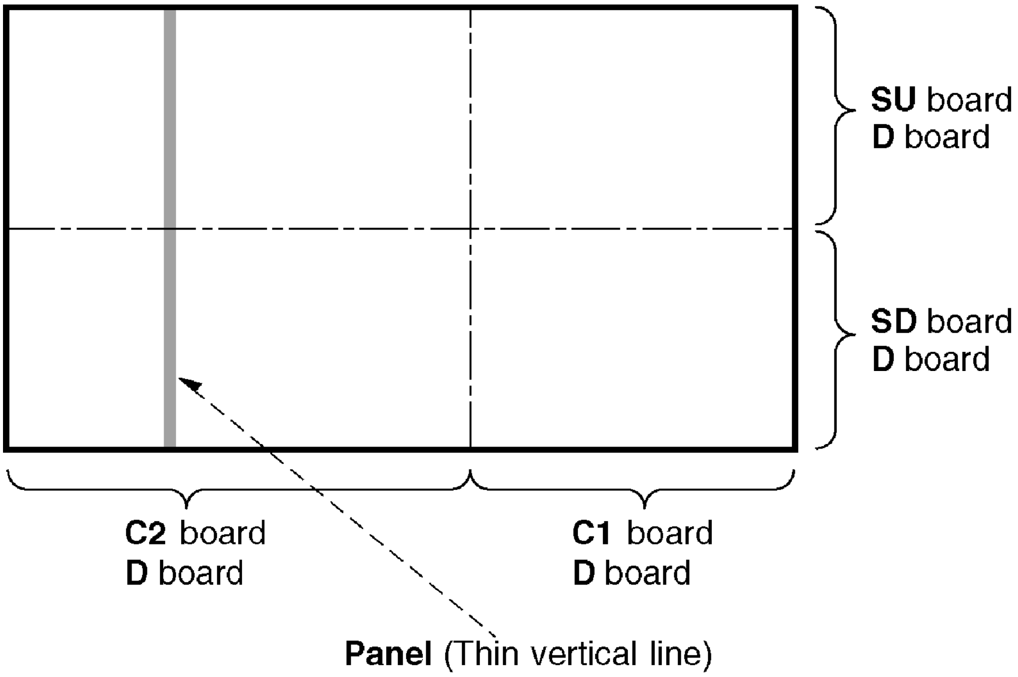
Drive circuits LED indicator


SC board
D6583
SS board
D6065

8.5. Local screen failure

Plasma display may have local area failure on the screen. Fig - 1 is the possible defect P.C.B. for each local area.

Fig - 1


SU board
D board
SD board
D board
C2 board
D board
C1 board
D board
Panel (Thin vertical line)

<Local screen failure chart>

9. Serviceman Mode

9.1. How to enter into Serviceman Mode

While pressing [VOLUME-◀] button of the main unit, press [RECALL] button of the remote control three times in a row (within 2 seconds).

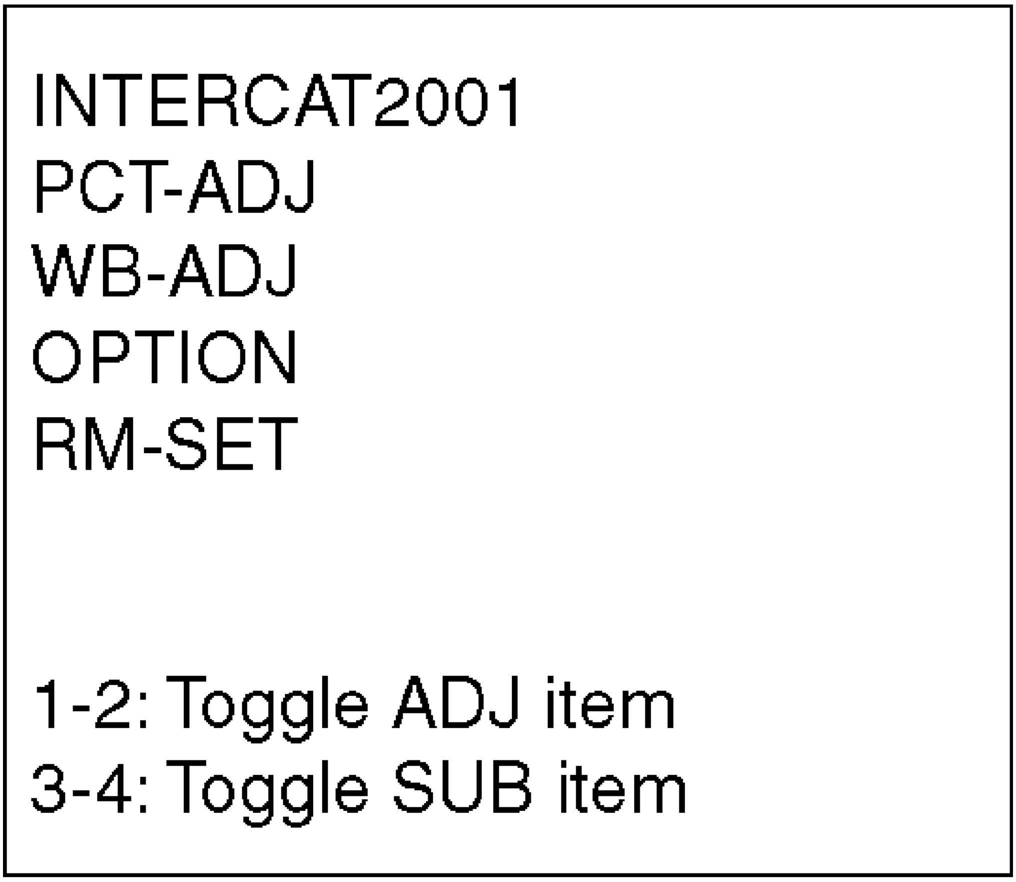
9.1.1. Adjustment method.....Use the remote control.

"▲" button...Main items Selection in forward direction

"▼" button...Main items Selection in reverse direction

"▶" button...Sub items Selection in forward direction

"◀" button...Sub items Selection in reverse direction
"VOL" button...Value of sub items change in forward direction (+), in reverse direction (-)
"SLEEP"...EEP COPY: EXT → INT
"RETURN"...EEP COPY: INT → EXT



INTERCAT2001
PCT-ADJ
WB-ADJ
OPTION
RM-SET

1-2: Toggle ADJ item
3-4: Toggle SUB item

9.2. Cancellation

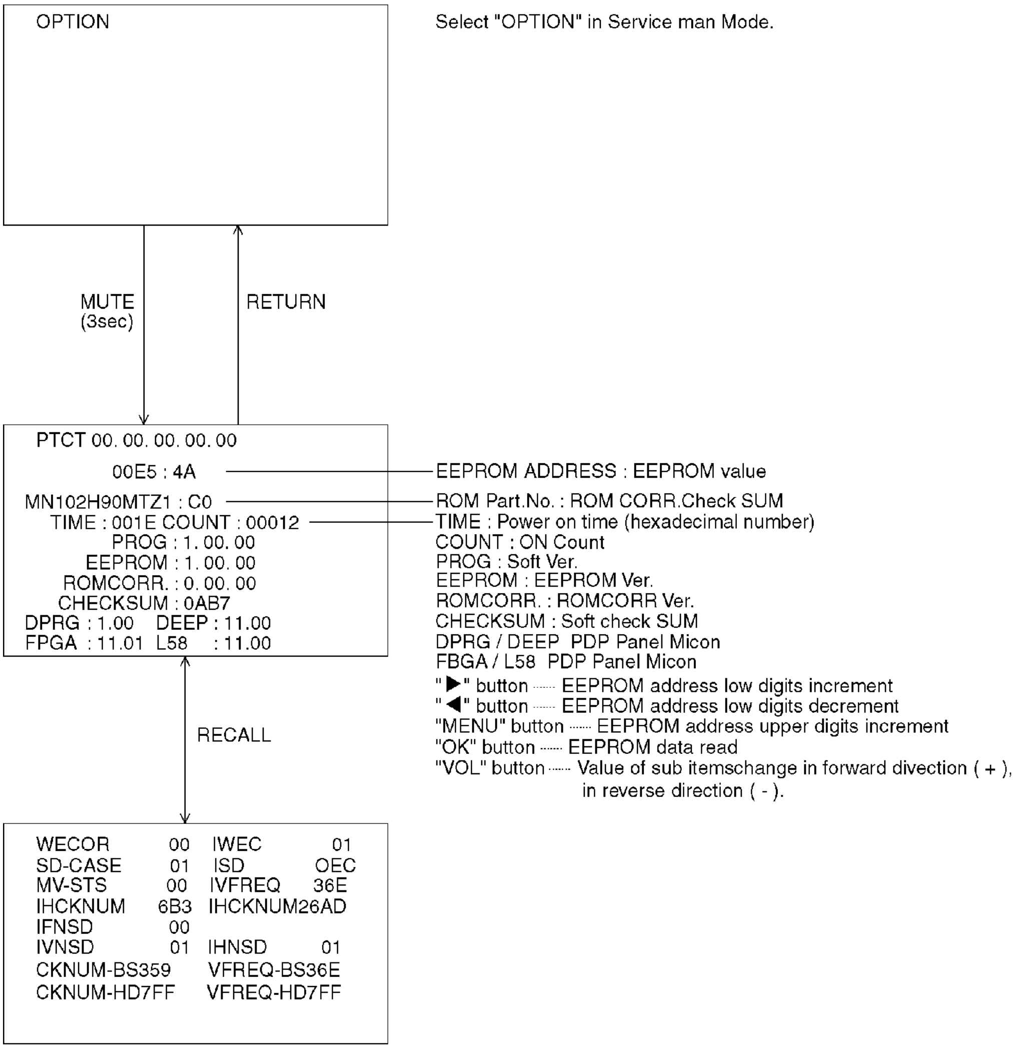
Switch off the power with the [POWER] button on the main unit or the [POWER] button on the remote control.

9.3. Contents of adjustment mode

- **Value is shown as a hexadecimal number.**
- **Preset value differs depending on models.**
- **After entering the adjustment mode, take note of the value in each item before starting adjustment.**

Main item	Sub item	Sample Data
PCT-ADJ	PICTURE	11C
	COLOR	33
	TINT	05
	S-BRT	800
WB-ADJ	R-CUT	80
	G-CUT	80
	B-CUT	80
	R-DRV	DC
	G-DRV	FC
	B-DRV	E9
	ALL-CUT	80
	ALL-DRV	FC
	SUB-BRT	800
OPTION	OPT00	1
	EEP COPY	ALL
RM-SET	CODE	A

9.4. Option



Select "OPTION" in Service man Mode.

```
PTCT 00. 00. 00. 00. 00
        00E5 : 4A
MN102H90MTZ1 : C0
  TIME : 001E COUNT : 00012
        PROG : 1. 00. 00
      EEPROM : 1. 00. 00
    ROMCORR. : 0. 00. 00
    CHECKSUM : 0AB7
DPRG : 1.00    DEEP : 11.00
FPGA  : 11.01  L58    : 11.00
```

EEPROM ADDRESS : EEPROM value
ROM Part.No. : ROM CORR.Check SUM
TIME : Power on time (hexadecimal number)
COUNT : ON Count
PROG : Soft Ver.
EEPROM : EEPROM Ver.
ROMCORR. : ROMCORR Ver.
CHECKSUM : Soft check SUM
DPRG / DEEP PDP Panel Micon
FBGA / L58 PDP Panel Micon
"▶" button ······ EEPROM address low digits increment
"◀" button ······ EEPROM address low digits decrement
"MENU" button ······ EEPROM address upper digits increment
"OK" button ······ EEPROM data read
"VOL" button ······ Value of sub itemschange in forward divection (+),
in reverse direction (-).

```
WECOR         00   IWEC          01
SD-CASE       01   ISD          OEC
MV-STS        00   IVFREQ       36E
IHCKNUM      6B3   IHCKNUM26AD
IFNSD         00
IVNSD         01   IHNSD         01
CKNUM-BS359        VFREQ-BS36E
CKNUM-HD7FF        VFREQ-HD7FF
```

10. Adjustment Procedure

10.1. Driver Set-up

10.1.1. Item / Preparation

1. Input an APL 100 % white signal.

2. Set the picture controls: -
Picture mode: Normal
White balance: Cool
Aspect: 16:9

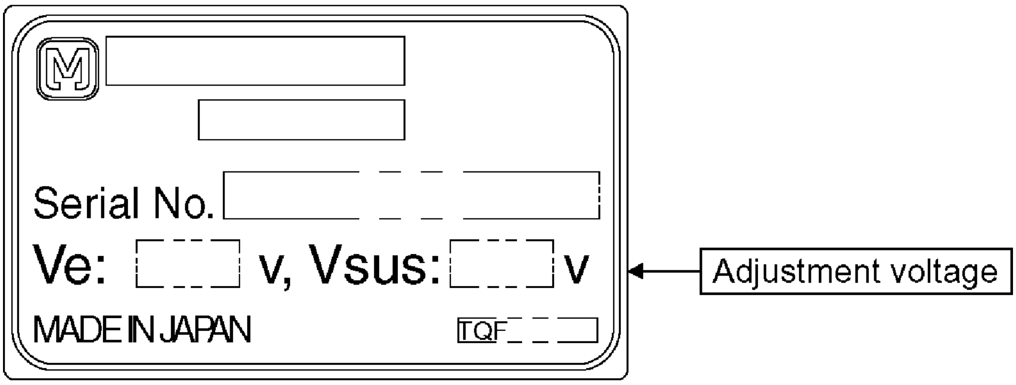
10.1.2. Adjustments

Adjust driver section voltages referring the panel data on the panel data label.

Name	Test Point	Voltage	Volume	Remarks
Vsus	TPVSUS (SS)	Vsus ± 1V	R628 (P)	*
Ve	TPVE (SS)	Ve ± 2V	VR6074 (SS)	*
Vset	TPVSET (SC)	232V ± 7V	Fixed	
Vad	TPVAD (SC)	-90V ± 1V	VR6477 (SC)	
Vscn	TPVSCN (SC)	Vad+120V ± 3V	Fixed	
Vda	TPVDA (SS)	67V ± 1V	R665 (P)	
PFC	C446 (+) (-)	395V± 0.5V	R443 (P)	
Vlow	C557 (+) (-)	73V± 0.1V	R661 (P)	load current : 0.4A
Vsus	TPVsus	174V± 1V	R671 (P)	load current : 0.6A

*See the Panel label.

Panel Label information


Serial No.
Ve: v, Vsus: V
MADE IN JAPAN
TQF
Adjustment voltage

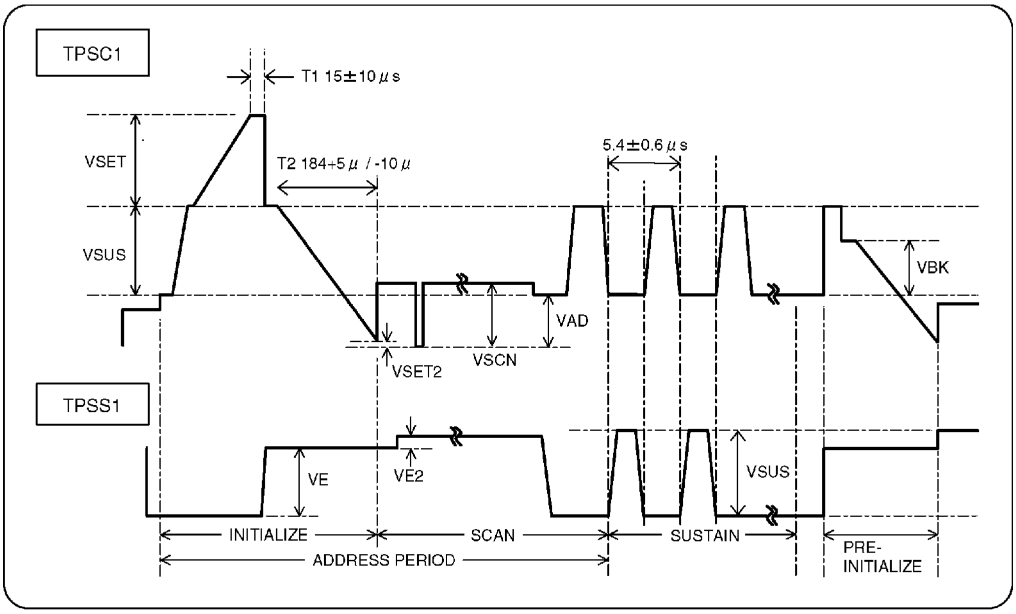
10.2. Initialization Pulse Adjust

1. Input a Cross hatch signal.

2. Set the picture controls: -
Picture mode: Normal
White balance: Cool

Adjust the indicated test point for the specified wave form.

	Test point	Volume	Level
T1	**TPSC1 (SC)**	**---**	**15 ± 10 μ Sec**
T2	**TPSS1 (SS)**	**VR6557 (SC)**	**184 + 5 μ / - 10 μ Sec**


TPSC1
T1 15±10μs
VSET
T2 184+5μ / -10μ
5.4±0.6μs
VSUS
VBK
VAD
VSET2
VSCN
TPSS1
VE
VE2
VSUS
INITIALIZE
SCAN
SUSTAIN
PRE-INITIALIZE
ADDRESS PERIOD

10.3. P.C.B. (Printed Circuit Board) exchange

10.3.1. Caution

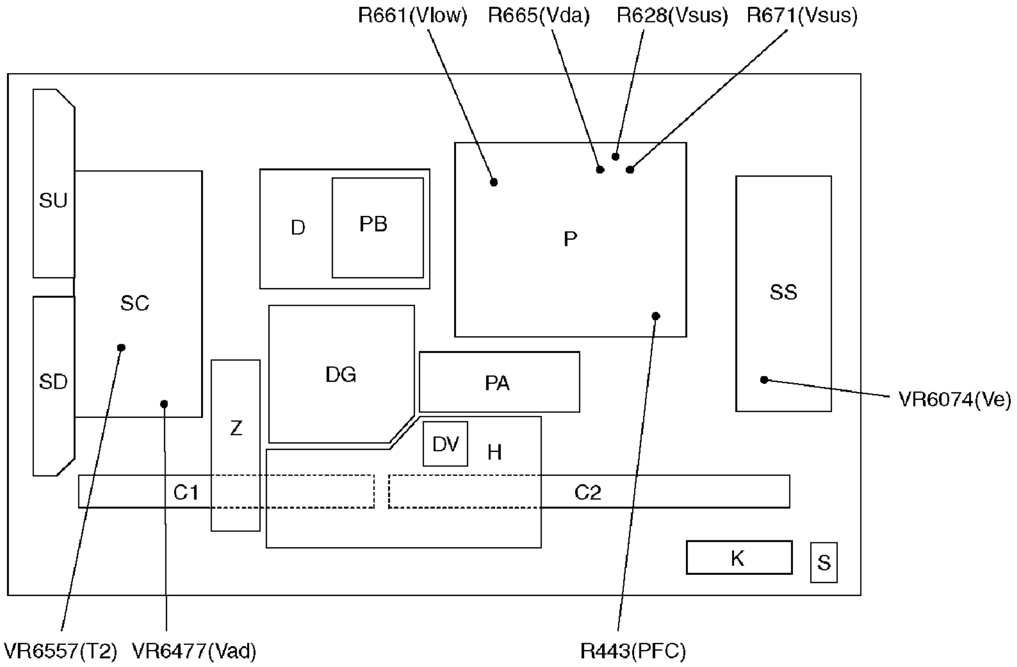
1. **To remove P.C.B. , wait 1 minute after power was off for discharge from electrolysis capacitors.**

10.3.2. Quick adjustment after P.C.B. exchange

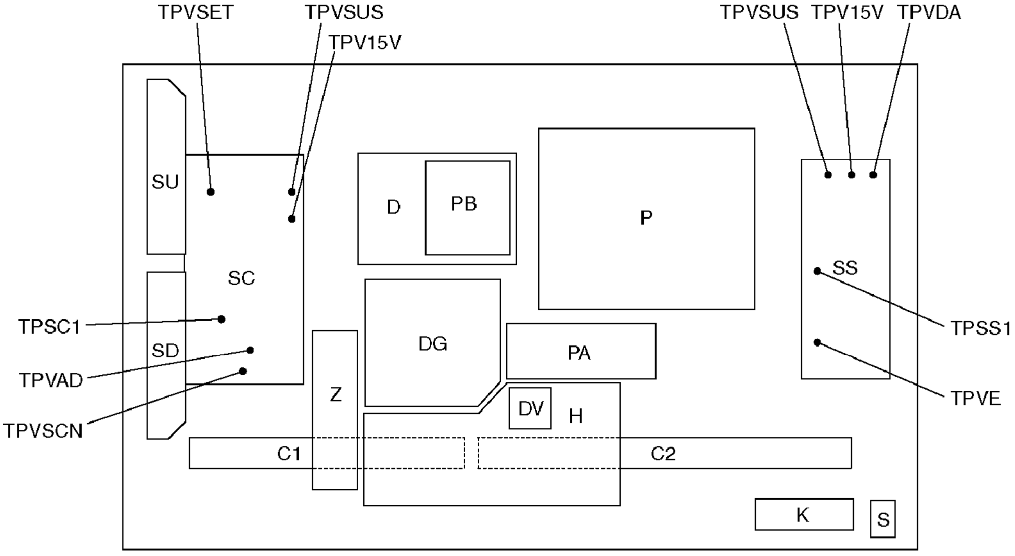
P.C.B.	Name	Test Point	Voltage	Volume	Remarks
P Board	**Vsus**	**TPVSUS (SS)**	**Vsus ± 1V**	**R628 (P)**	*****
	Vda	**TPVDA (SS)**	**67V ± 1V**	**R665 (P)**	
	PFC	**C446 (+) (-) (P)**	**395V ± 0.5V**	**R443 (P)**	
	Vlow	**C557 (+) (-) (P)**	**73V ± 0.1V**	**R661 (P)**	**load current : 0.4A**
	Vsus	**TPVSUS (SS)**	**174V ± 0.5V**	**R671 (P)**	**load current : 0.6A**
SC Board	**Vad**	**TPVAD (SC)**	**-90V ± 1V**	**VR6477 (SC)**	
SS Board	**Ve**	**TPVE (SS)**	**Ve ± 2V**	**VR6074 (SS)**	*****
D, DG Board	**White blance, Pedestal and Sub brightness for NTSC, PAL, HD, PC and 625i signal**				

***See the Panel label.**

10.4. Adjustment Volume Location


R661(Vlow)
R665(Vda)
R628(Vsus)
R671(Vsus)
SU
SC
SD
D
PB
P
SS
DG
PA
Z
DV
H
C1
C2
K
S
VR6074(Ve)
VR6557(T2)
VR6477(Vad)
R443(PFC)

10.5. Test Point Location


TPVSET
TPVSUS
TPV15V
TPVSUS
TPV15V
TPVDA
SU
SC
SD
D
PB
P
SS
DG
PA
Z
DV
H
C1
C2
K
S
TPSC1
TPVAD
TPVSCN
TPSS1
TPVE

11. Adjustment

11.1. NTSC panel white balance adjustment

Instrument Name	Connection	Remarks
-W/B pattern	Video input	
-Color analyzer (Minolta CA-100 or equivalent)	Panel surface	
Procedure		**Remarks**

Instrument Name	Connection	Remarks

- **Ensure aging is adequate.**
- **Make sure the front panel to be used on the final set is fitted.**
- **Make sure a color signal is not being shown before adjustment.**
- **Put the color analyzer where there is little color variation.**

1. Output a white balance pattern.
2. Check that the color temperature is "Cool".
3. Set to factory mode, WB-ADJ.
4. Set "G-CUT", "B-CUT" and "R-CUT" as 80h.
5. Attach the sensor of color analyzer to the center of highlight window.
6. Fix G drive at E0h and adjust "B-DRV" and "R-DRV" so x, y value of color analyzer become the "Color temperature High" in table 1.
7. Increase RGB together so the maximum drive value in RGB becomes FCh. That is, set "ALL DRIVE" to FCh.
8. Confirm the highlight to the values shown in table 1 "Color temperature High". If not, re-adjust.
9. Set color temperature to "Normal".
10. Set "G-CUT", "B-CUT" and "R-CUT" as 80h.
11. Fix G drive at E0h and adjust "B-DRV" and "R-DRV" so x, y value of color analyzer become the "Color temperature Mid" in table 1.
12. Increase RGB together so the maximum drive value in RGB becomes FCh. That is, set "ALL DRIVE" to FCh.
13. Confirm the highlight to the values shown in table 1 "Color temperature Mid". If not, re-adjust.
14. Set color temperature to "Warm".
15. Set "G-CUT", "B-CUT" and "R-CUT" as 80h.
16. Fix G drive at E0h and adjust "B-DRV" and "R-DRV" so x, y value of color analyzer become the "Color temperature Low" in table 1.
17. Increase RGB together so the maximum drive value in RGB becomes FCh. That is, set "ALL DRIVE" to FCh.
18. Confirm the highlight to the values shown in table 1 "Color temperature Low". If not, re-adjust.
19. Set color temperature to "Cool"

Table 1、W/B adjustment values

Colour temperature	x	y
High	0.276	0.276
Mid	0.288	0.296
Low	0.313	0.329

Table 2、Cutoff data addresses (NTSC)

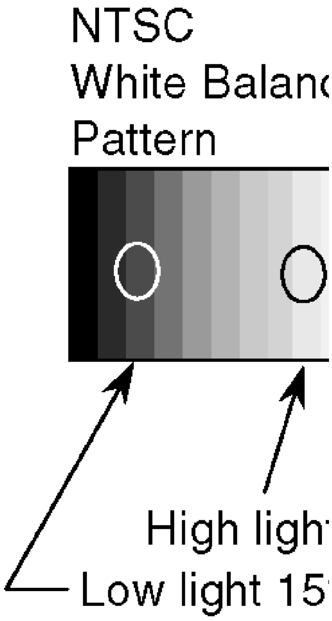
Colour temperature	R	G	B
High	A0-0137	A0-0138	A0-0139
Medium	A0-013D	A0-013E	A0-013F
Low	A0-0143	A0-0144	A0-0145

Table 3、Drive data addresses (NTSC)

Colour temperature	R	G	B
High	A0-013A	A0-013B	A0-013C
Medium	A0-0140	A0-0141	A0-0142
Low	A0-0146	A0-0147	A0-0148

Pic. mode : Vivid
ASPECT : 16:9

- **Highlight section**
Signal amplitude 75%



11.2. HD white balance adjustment

Instrument Name	Connection	Remarks
-W/B pattern -Color analyzer (Minolta CA-100 or equivalent)	**Component input** **Panel surface**	**User setting : Normal**
Procedure		**Remarks**

Instrument Name	Connection	Remarks

-Ensure aging is adequate

-Make sure the front panel to be used on the final set is fitted.

-Make sure a color signal is not being shown before adjustment.

-Put the color analyzer where there is little color variation.

1. Output a white balance pattern.
2. Check that the color temperature is "Cool".
3. Set to Service mode, WB-ADJ.
4. Set "G-CUT", "B-CUT" and "R-CUT" as 80h.
5. Attach the sensor of color analyzer to the center of highlight window.
6. Fix G drive at E0h and adjust "B-DRV" and "R-DRV" so x, y value of color analyzer become the "Color temperature High" in table 1.
7. Increase RGB together so the maximum drive value in RGB becomes FCh. That is, set "ALL DRIVE" to FCh.
8. Confirm the highlight to the values shown in table 1 "Color temperature High". If not, re-adjust.
9. Set color temperature to "Normal".
10. Set "G-CUT", "B-CUT" and "R-CUT" as 80h.
11. Fix G drive at E0h and adjust "B-DRV" and "R-DRV" so x, y value of color analyzer become the "Color temperature Mid" in table 1.
12. Increase RGB together so the maximum drive value in RGB becomes FCh. That is, set "ALL DRIVE" to FCh.
13. Confirm the highlight to the values shown in table 1 "Color temperature Mid". If not, re-adjust.
14. Set color temperature to "Warm".
15. Set "G-CUT", "B-CUT" and "R-CUT" as 80h.
16. Fix G drive at E0h and adjust "B-DRV" and "R-DRV" so x, y value of color analyzer become the "Color temperature Low" in table 1.
17. Increase RGB together so the maximum drive value in RGB becomes FCh. That is, set "ALL DRIVE" to FCh.
18. Confirm the highlight to the values shown in table 1 "Color temperature Low". If not, re-adjust.
19. Set color temperature to "Cool"

Table 1、W/B adjustment values

Colour temperature	x	y
High	0.276	0.276
Mid	0.288	0.296
Low	0.313	0.329

Table 2、Cutoff data addresses (HD)

Colour temperature	R	G	B
High	A0-0125	A0-0126	A0-0127
Medium	A0-012B	A0-012C	A0-012D
Low	A0-0131	A0-0132	A0-0133

Table 3、Drive data addresses (HD)

Colour temperature	R	G	B
High	A0-0128	A0-0129	A0-012A
Medium	A0-012E	A0-012F	A0-0130
Low	A0-0134	A0-0135	A0-0136

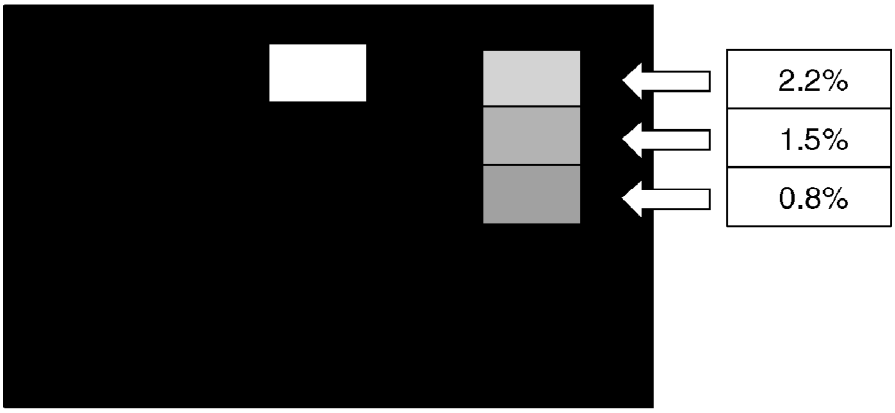
Image menu : Vivid
ASPECT : 16:9

-Highlight section
Signal amplitude 75%

-The Color balance COOL differs fro
model values.

11.3. Sub bright adjustment

Instrument Name	Connection	Remarks
1. NTSC signal generator	Connect to the input terminal	

Procedure	Remarks
-Color balanve adjustment is finished for each signal. -Do adjustments in a dark room. 1. Display the pattern for adjusting subbright from NTSC signal. 2. Use “Sub-Bright” in the “Service-Menu1” mode to adjuct so the top part of the step section in the below diagram fintly shows up and the middle fades away. *** Sub-BRT EEPROM : (Ver 0.63)** **112 : Sub-Bright increment 0X08** **113 : Sub-Bright decrement 0X00** 	**Picture menu : Dynamic** **Color balance : Normal** **ASPECT : 16:9** *** If using RF ch.E04, (Sub-bright test pattern), adjust so the 6th section s and the 7th fades away.**

12. Conductor View

12.1. P-Board

12.2. PA-Board

12.3. PB-Board

12.4. H-Board

12.5. DV-Board

12.6. DG-Board

12.7. Z-Board

12.8. D-Board

12.9. C1-Board

12.10. C2-Board

12.11. SC-Board

12.12. SU-Board

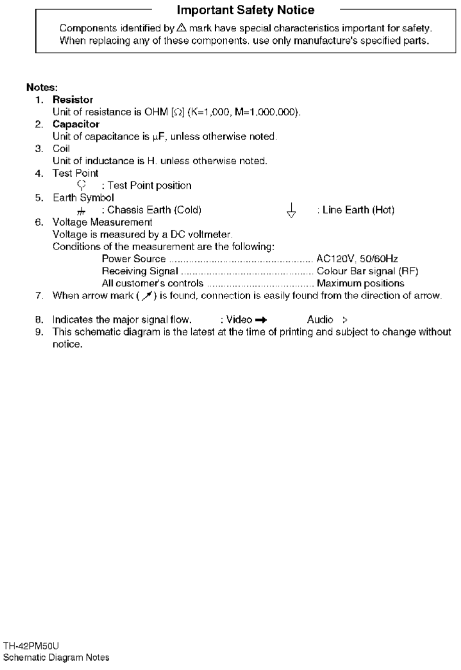
12.13. SD-Board

12.14. SS-Board

12.15. K and S-Board

13. Block and Schematic Diagram

13.1. Schematic Diagram Notes



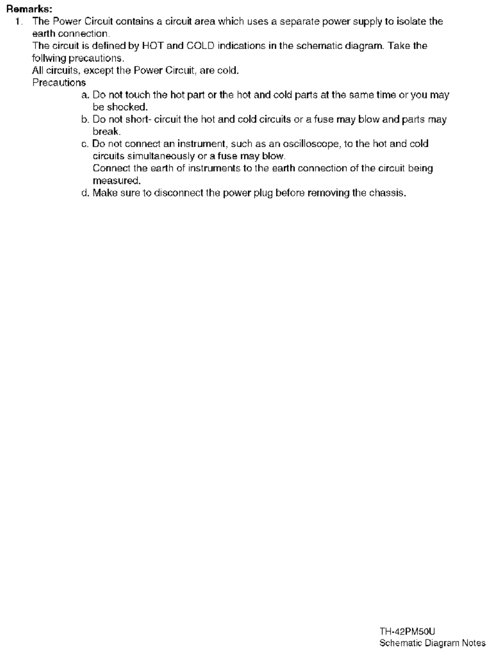
Important Safety Notice

Components identified by △ mark have special characteristics important for safety.
When replacing any of these components. use only manufacture's specified parts.

Notes:

1. **Resistor**
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
2. **Capacitor**
   Unit of capacitance is μF, unless otherwise noted.
3. Coil
   Unit of inductance is H. unless otherwise noted.
4. Test Point
   : Test Point position
5. Earth Symbol
   : Chassis Earth (Cold) : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source AC120V, 50/60Hz
   Receiving Signal .... Colour Bar signal (RF)
   All customer's controls .... Maximum positions
7. When arrow mark (↗) is found, connection is easily found from the direction of arrow.
8. Indicates the major signal flow. : Video ➡ Audio ▷
9. This schematic diagram is the latest at the time of printing and subject to change without notice.

TH-42PM50U
Schematic Diagram Notes



Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   - a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   - b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   - c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
     Connect the earth of instruments to the earth connection of the circuit being measured.
   - d. Make sure to disconnect the power plug before removing the chassis.

TH-42PM50U
Schematic Diagram Notes

13.2. Main Block Diagram

13.3. P-Board Block Diagram

13.4. P-Board (1 of 6) Schematic Diagram

13.5. P-Board (2 of 6) Schematic Diagram

13.6. P-Board (3 of 6) Schematic Diagram

13.7. P-Board (4 of 6) Schematic Diagram

13.8. P-Board (5 of 6) Schematic Diagram

13.9. P-Board (6 of 6) Schematic Diagram

13.10. PA and PB-Board Block Diagram

13.11. PA-Board Schematic Diagram

13.12. PB-Board Schematic Diagram

13.13. H, K, S and Z-Board Block Diagram

13.14. H-Board (1 of 3) Schematic Diagram

13.15. H-Board (2 of 3) Schematic Diagram

13.16. H-Board (3 of 3) Schematic Diagram

13.17. Z-Board Schematic Diagram

13.18. K and S-Board Schematic Diagram

13.19. DV-Board Block Diagram

13.20. DV-Board Schematic Diagram

13.21. DG-Board (1 of 2) Block Diagram

13.22. DG-Board (2 of 2) Block Diagram

13.23. DG-Board (1 of 11) Schematic Diagram

13.24. DG-Board (2 of 11) Schematic Diagram

13.25. DG-Board (3 of 11) Schematic Diagram

13.26. DG-Board (4 of 11) Schematic Diagram

13.27. DG-Board (5 of 11) Schematic Diagram

13.28. DG-Board (6 of 11) Schematic Diagram

13.29. DG-Board (7 of 11) Schematic Diagram

13.30. DG-Board (8 of 11) Schematic Diagram

13.31. DG-Board (9 of 11) Schematic Diagram

13.32. DG-Board (10 of 11) Schematic Diagram

13.33. DG-Board (11 of 11) Schematic Diagram

13.34. D-Board Block Diagram

13.35. D-Board (1 of 6) Schematic Diagram

13.36. D-Board (2 of 6) Schematic Diagram

13.37. D-Board (3 of 6) Schematic Diagram

13.38. D-Board (4 of 6) Schematic Diagram

13.39. D-Board (5 of 6) Schematic Diagram

13.40. D-Board (6 of 6) Schematic Diagram

13.41. C1 and C2-Board Block Diagram

13.42. C1-Board (1 of 2) Schematic Diagram

13.43. C1-Board (2 of 2) Schematic Diagram

13.44. C2-Board (1 of 2) Schematic Diagram

13.45. C2-Board (2 of 2) Schematic Diagram

13.46. SC-Board Block Diagram

13.47. SC-Board (1 of 2) Schematic Diagram

13.48. SC-Board (2 of 2) Schematic Diagram

13.49. SU-Board Block Diagram

13.50. SU-Board Schematic Diagram

13.51. SD-Board Block Diagram

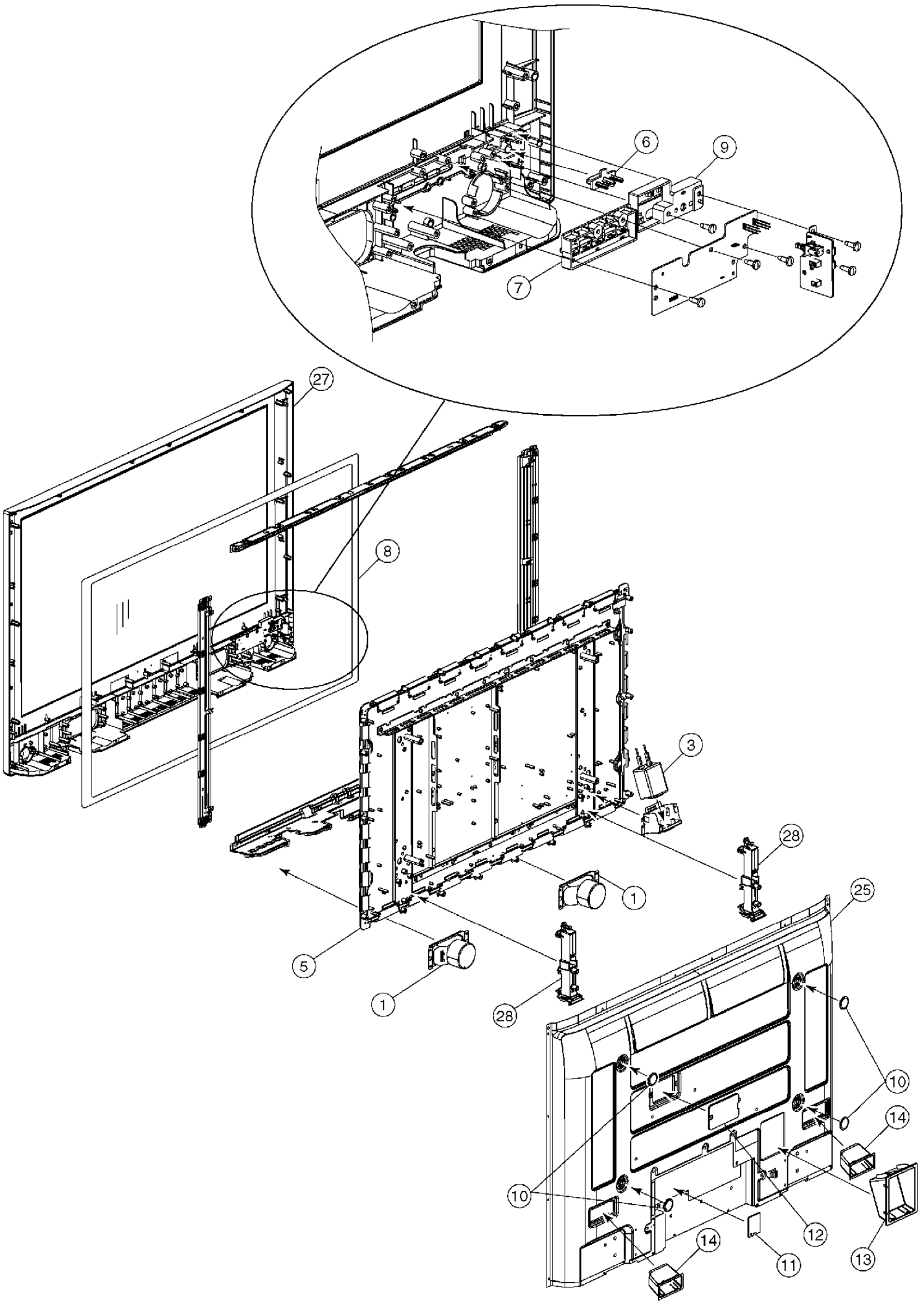
13.52. SD-Board Schematic Diagram

13.53. SS-Board Block Diagram

13.54. SS-Board Schematic Diagram

14. Parts Location & Mechanical Replacement Parts List

14.1. Parts Location


6
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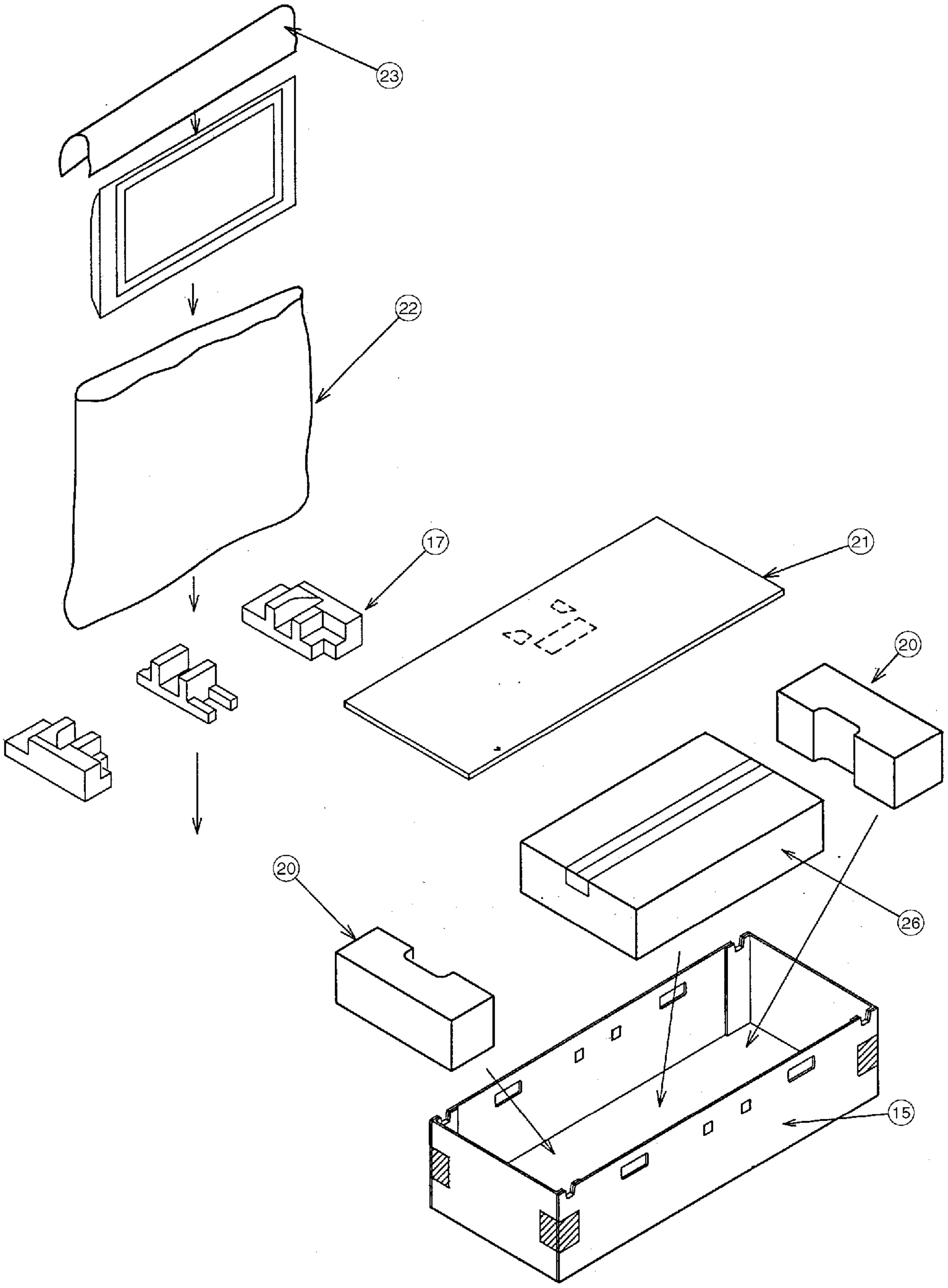
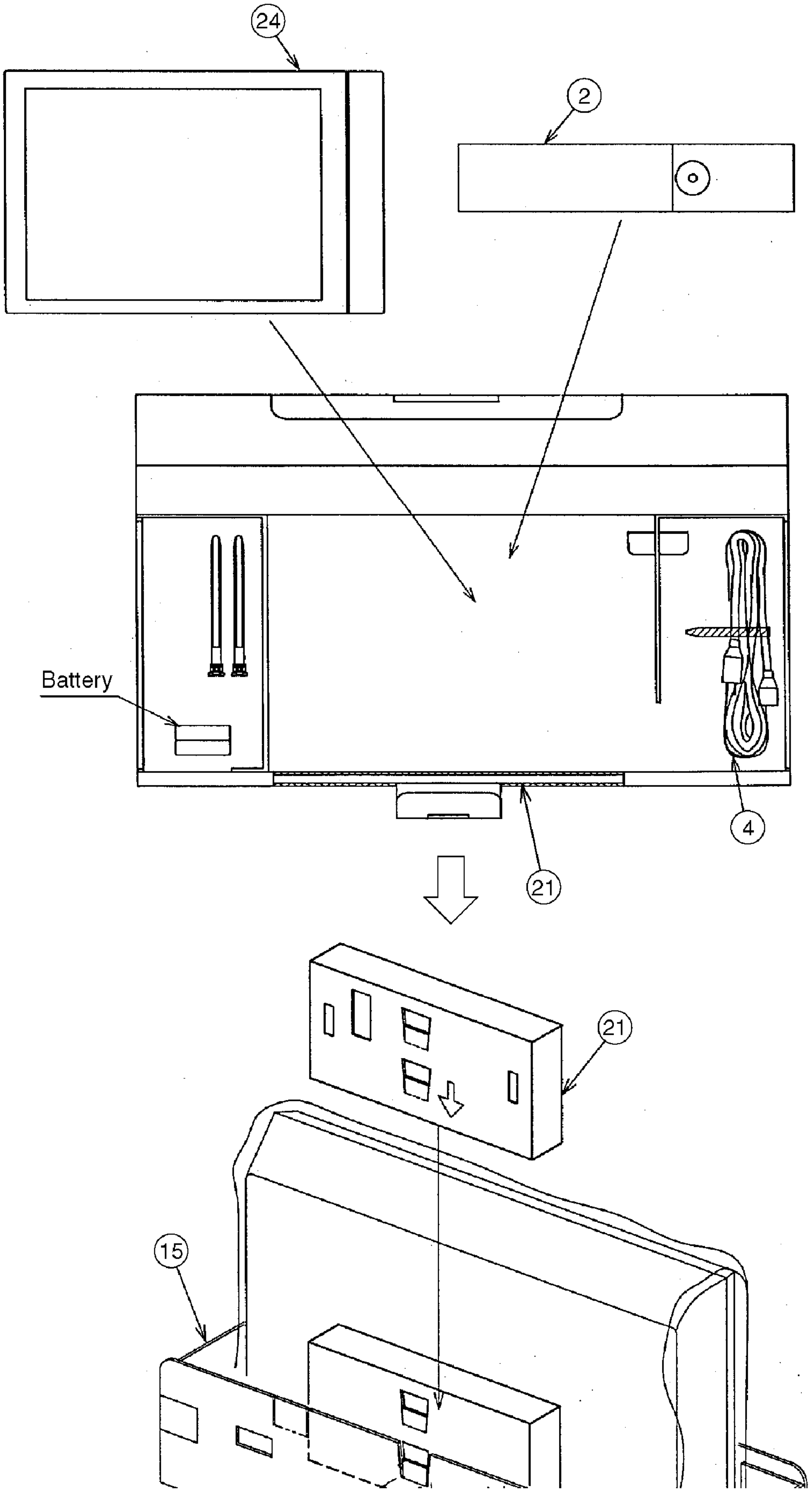
14.2. Packing Exploded Views (1)



14.3. Packing Exploded Views (2)



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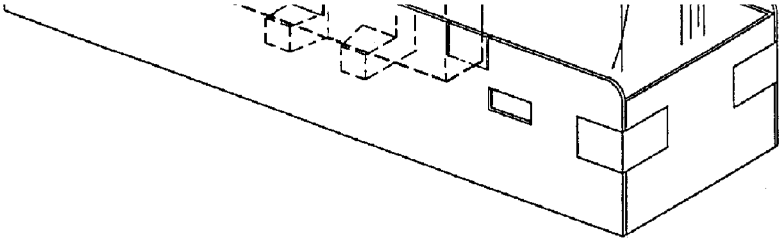
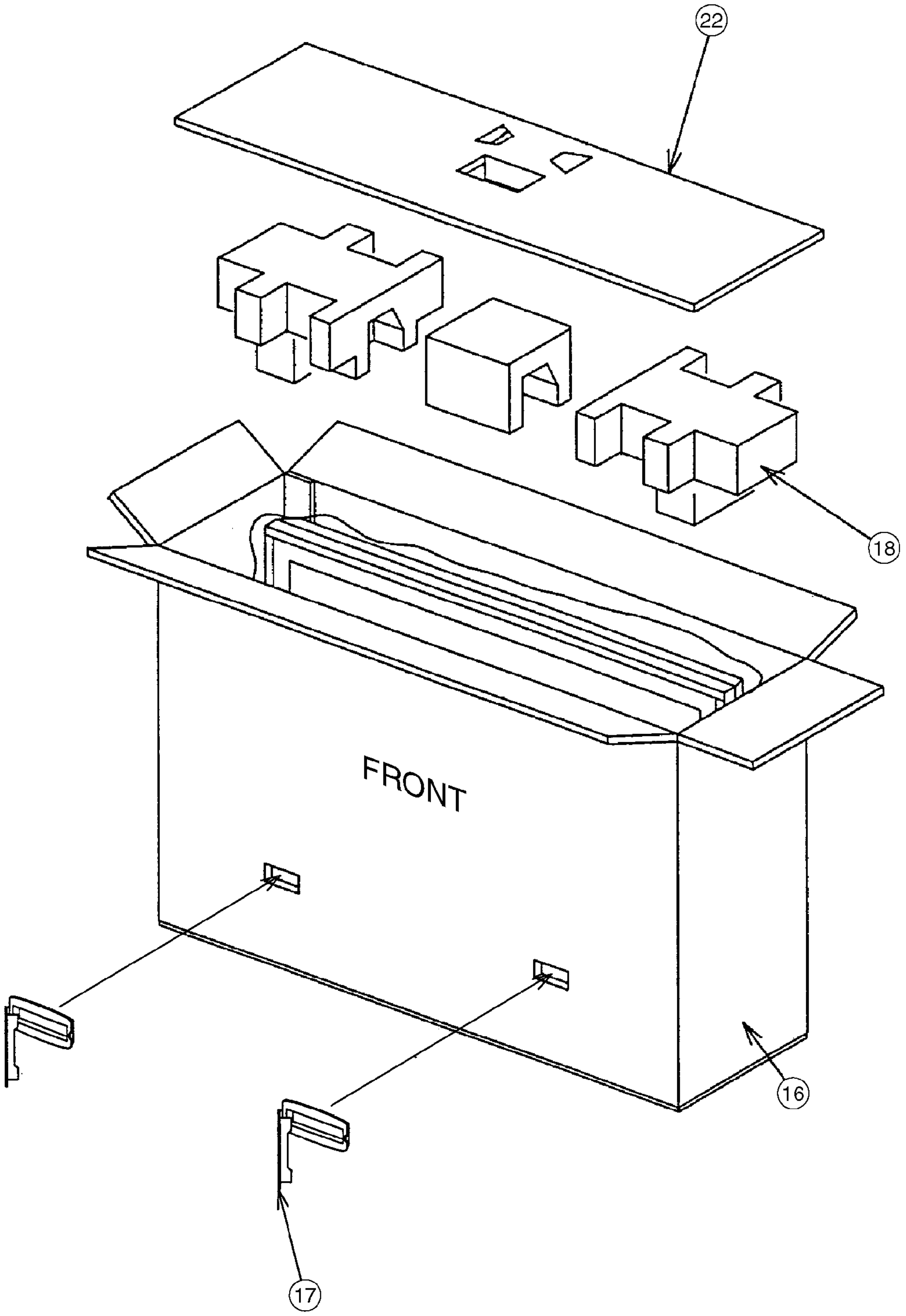


14.4. Packing Exploded Views (3)



14.5. Mechanical Replacement Parts List

Note:

All parts except parts mentioned [PAVCA] in the Remarks column are supplied by AVC-SPC.
Parts mentioned [PAVCA] are supplied by PAVCA.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	EAS12S08A	SPEAKER	2	
2	EUR646539	REMOTE CONTROL	1	PAVCA
	J0KD00000095	FLAT CORE	2	
	K1YD55000001	55P CONNECTOR	2	
3	K2AH3H000034	AC INLET	1	⚠
4	K2CG3DH00025	AC CORD	1	⚠
5	MD42S08A1J	PLASMA DISPLAY PANEL	1	
	TBL63413-1	RUBBER	8	
	TBLA3341	STAND POLE	2	
6	TBXA46302	POWER BUTTON	1	
7	TBXA46402	5KEYS BUTTON	1	
	TES4G204	SPRING	1	
	THEL027N	SCREW	4	
	THEL035N	SCREW	69	
	THEL0429	SCREW	23	
	THEL0439	SCREW(FLOCK)	4	
	THTA0379	SCREW	2	
	THTD011J	SCREW	1	
8	TKGA5198-1	FRONT GLASS	1	
9	TKKC5208	PANEL LIGHT	1	
10	TKKL5231	COVER	4	
11	TKKL5306	ADJUSTMENT COVER(SMALL)	1	
12	TKKL5330	ADJUSTMENT COVER(LARGE)	1	
13	TKPA94301	INLET COVER	1	
14	TKRA46201	REAR COVER HANDLE	2	
	TMKG556	SPONGE T/B	2	
	TMKG557	SPONGE L/R	2	
	TMM17499	CLAMPER	1	
	TMM25401	CLAMPER	5	
	TMM7464-2	CLAMPER	1	
	TMM7468-1	CLAMPER	1	
	TMME047	CLAMPER	6	
	TMME061	CLAMPER	5	
	TMME190	CLAMPER	2	
	TMME199	CLAMPER	1	
	TMME206	CLAMPER	2	
	TMME226	CLAMPER	1	
	TMME253	CLAMPER	1	
15	TPC2AA4601	CARTON BOTTOM	1	PAVCA
16	TPC2AA5102	CARTON TOP	1	PAVCA ⚠
	TPCB79101	CARTON BOX (STAND)	1	⚠
17	TPD169487	JOINT	4	
18	TPD2AA04301	CUSHION TOP	1	
19	TPD2AA04501	CUSHION BOTTOM	1	
20	TPD2AA04901	CUSHION FOR STAND	1	
21	TPD2AF00711	TOP PAD	2	PAVCA
	TPDA1120	CUSHION TOP (STAND)	1	
	TPDA1121	CUSHION BOTTOM (STAND)	1	
	TPDF1401	PAD BOTTOM (STAND)	1	
	TPE2A40055	BAG	1	PAVCA
22	TPE2AH0101	SET POLY COVER	1	PAVCA
23	TPE2AH0131	TOP PROTECT SHEET	1	PAVCA

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TPEH270	POLY BAG (STAND)	1	
24	TQB2AA0591	INSTRUCTION BOOK(ENG/FRE/	1	PAVCA ⚠
	TQZH624	INSTRUCTION SHEET	1	⚠
	TSXL438	CABLE(PA30-H30/DG20-PA20	2	
	TSXL440	CABLE(D33-C21/D34-C11)	2	
	TSXL460	CABLE(Z50-H50)	1	
	TSXL461	CABLE(DG1-H1/DG2-H2)	2	
25	TTUA1281	REAR COVER	1	PAVCA ⚠
26	TXFBL010ZES	STAND ASSY	1	
27	TXFKE01ZTSU	ESCUTCHEON ASSY	1	PAVCA
	TXFMM010ZES	STOPPER (STAND)	1	
28	TXFMZ01YFSUB	STAND BLOCK ASSY	2	
	TXJ/SWYFSE	SPEAKER LEAD	2	
	TXJ/Z2YFSU-1	SPEAKER LEAD(SPL/SPR)	1	
	XTB3+10GFJ	SCREW	4	
	XTB4+12GFJ	SCREW	33	
	XTB4+12GFJK	SCREW	1	
	XTB4+15AFJK	SCREW	22	
	XTB4+8JFJ	SCREW M4X8 (STAND)	8	
	XTV3+10JFJK	SCREW	1	
	XTW4+35DFJ	SCREW	10	
	XYC4+FJ35FJK	SCREW	8	
	XYN3+F8FJ	SCREW	28	
	XYN3+J10FJ	SCREW	1	
	XYN3+J12FJ	SCREW	23	
	XYN3+J8FJ	SCREW ROHS	4	
	XYN4+E8FJ	SCREW(EARTH)	1	
	XYN5+C15FJ	SCREW	8	
	XYN5+F20FJ	SCREW M5X20 (STAND)	4	
	XYN5+F30FJK	SCREW	4	
	XZB12X25D03	POLY BAG	2	
	XZB7.5X9D05	POLY BAG (SCREW)	1	

15. Replacement Parts List

15.1. Replacement Parts List Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.
After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention.
After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

Type Allowance

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V

Type Allowance

Type	Allowance
C : Carbon	F : ±1%
F : Fuse	G : ±2%
M : Metal Oxide	J : ±5%
Metal FIlm	K : ±10%
S : Solid	M : ±20%
W : Wire Wound	

Type	Allowance
C : Ceramic	C : ±0.25pF
E : Electrolytic	D : ±0.5pF
P : Polyester	F : ±1pF
Polyprop	G : ±3pF
lene	J : ±5pF
T : Tantalum	K : ±10pF
	L : ±15pF
	M : ±20pF
	P : +100%, -0%
	Z : +80%, -20%

15.2. Electrical Replacement Parts List

Note:

All parts except parts mentioned [PAVCA] in the Remarks column are supplied by AVC-SPC.
Parts mentioned [PAVCA] are supplied by PAVCA.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
F401.402	K5D802BNA005	TIME LAG FUSE HIGH	2	⚠
C11	K1MN55BA0076	55P CONNECTOR	1	
C12	K1KA04BA0107	4P CONNECTOR	1	
C1MM2	TMME199	CLAMPER	1	
C21	K1MN55BA0076	55P CONNECTOR	1	
C22	K1KA04BA0107	4P CONNECTOR	1	
C23	K1KA12AA0153	12P CONNECTOR	1	
C2300	ECJ1VF1H104Z	C 0.1UF, Z, 50V	1	
C2301	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2307	ECA1CMH101	E 100UF, 16V	1	
C2310,11	ERJ8GEY0R00	M 0 OHM, 1/8W	2	
C2335	ECJ3YB1A106M	C 10UF, M,6.3V	1	
C2337	ECJ1VB1C473K	C 0.047UF, K, 16V	1	
C2338	ECJ1VB1E104K	C 0.10UF, K, 25V	1	
C2340	ECJ2FB1C274K	C 0.27UF, Z, 16V	1	
C2341	ECJ1XC1H221J	C 220PF, J, 50V	1	
C2342	ECJ1VB1H152K	C 1500PF, K, 50V	1	
C2343	ECJ2XB1H562K	C 5600PF, K, 50V	1	
C2344	ECJ1XC1H102J	C 1000PF, J, 50V	1	
C2346	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2347	ECA1VHG470	E 47UF, 35V	1	
C2348	ECJ1XC1H221J	C 220PF, J, 50V	1	
C2349	ECJ1VB1H152K	C 1500PF, K, 50V	1	
C2350	ECJ2XB1H562K	C 5600PF, K, 50V	1	
C2351	ECJ1XC1H102J	C 1000PF, J, 50V	1	
C2352	ECJ1VB1C473K	C 0.047UF, K, 16V	1	
C2353	ECJ1VB1E104K	C 0.10UF, K, 25V	1	
C2355	ECJ2FB1C274K	C 0.27UF, Z, 16V	1	
C2356	ECJ3YB1A106M	C 10UF, M,6.3V	1	
C2372	ECA1HHG100	E 10UF, 50V	1	
C2374	ECA1HHG100	E 10UF, 50V	1	
C2376-79	ECJ2XB1H102K	C 1000PF, K, 50V	4	
C2384-87	ECJ2XB1H102K	C 1000PF, K, 50V	4	
C2428,29	ECJ2XB1E104K	C 0.1UF, K, 25V	2	
C2430	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2433,34	ECJ2FB1A225K	C 2.2UF, K, 10V	2	
C2437,38	ECJ2FB1A225K	C 2.2UF, K, 10V	2	
C2441,42	ECJ1XC1H221J	C 220PF, J, 50V	2	
C2445,46	ECJ2FB1E105K	C 1UF, K, 25V	2	
C2449,50	ECA1EHG331	E 330UF, 25V	2	
C2453,54	ECJ2FB1E105K	C 1UF, K, 25V	2	
C2457,58	ECJ2FB0J335K	C 3.3UF, K, 16V	2	
C2461,62	ECJ2XB1H332K	C 3300PF, K, 50V	2	
C2465,66	ECJ2FB1E105K	C 1UF, K, 25V	2	
C2469,70	ECJ2FB1E105K	C 1UF, K, 25V	2	
C2473,74	ECJ2FB1E105K	C 1UF, K, 25V	2	
C2477,78	ECJ2FB1E105K	C 1UF, K, 25V	2	
C2481-84	ECJ2FB1E224K	C 22UF, K, 25V	4	
C2489,90	ECJ2XB1H332K	C 3300PF, K, 50V	2	
C2497,98	ECJ2FB1E105K	C 1UF, K, 25V	2	
C2512	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C2515	ECJ1VB1H103K	C 0.001UF, K, 50V	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2602	ECA1CHG101	E 100UF, 16V	1	
C2603	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C2606	ECJ1VB1H332K	C 3300PF, K, 50V	1	
C2607	ECJ2FB1C684K	C 68UF, Z, 16V	1	
C2608	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2609	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C2610-14	ECJ1VF1A105Z	C 1UF, Z, 10V	5	
C2615	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C2616	ECJ2FB1C684K	C 68UF, Z, 16V	1	
C2617	ECJ1VB1H332K	C 3300PF, K, 50V	1	
C2620,21	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C2625,26	ECJ3YB1C475K	C 0.047UF, K, 16V	2	
C2633,34	TCUY1C225ZFN	C 2.2UF, 16V	2	
C2637	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2646,47	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C2648	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C2649,50	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C2652	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2655	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C2656	ECA1CHG101	E 100UF, 16V	1	
C2657	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C2660,61	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C2662	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C2663	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C2664	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2665-68	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C2670	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C2672	ECA1CHG470	E 47UF, 16V	1	
C2675	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2676	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2678	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2684-89	ECJ1VF1A105Z	C 1UF, Z, 10V	6	
C2701	ECA1CHG101	E 100UF, 16V	1	
C2702	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C2703	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2705	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2708	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2710	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2712	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2715	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2717	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2718	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C2723	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2725	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C2729,30	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C2733,34	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C2736-44	ECJ1VF1A105Z	C 1UF, Z, 10V	9	
C2747	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2750	ECA1HHG220	E 22UF, 50V	1	
C2775	ECA1EHG471	E 470UF, 25V	1	
C2779,80	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C2783	ECA1HHG220	E 22UF, 50V	1	
C4001	ECJ1XC1H102J	C 1000PF, J, 50V	1	
C4002	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4005,06	ECJ1XC1H180J	C 18PF, J, 50V	2	
C4008-11	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C4012	TAJAAH0680JV	M 68 OHM,J,1/16W	1	
C4013-15	ECJ1XB1C104K	C 0.1UF, Z, 16V	3	
C4016	ECJ1XC1H101J	C 100PF, J, 50V	1	
C4017,18	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C4020	ECJ1XB0J105K	C 1UF, K, 16V	1	
C4021	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4023	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4024	ECJ1XC1H180J	C 18PF, J, 50V	1	
C4025	ECJ1XC1H220J	C 22PF, J, 50V	1	
C4032	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C4033	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C4034	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4035	ECJ2FF1C475Z	C 0.047UF, Z, 16V	1	
C4038	ECJ1XC1H101J	C 100PF, J, 50V	1	
C4042,43	ECJ1VB1C105K	C 0.01UF, K, 16V	2	
C4051	ECJ1VB1A224K	C 0.22UF, Z, 50V	1	
C4053	ECJ1VB1A224K	C 0.22UF, Z, 50V	1	
C4054	ECJ1VB0J225K	C 2.2UF, K, 6.3V	1	
C4074	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4096	EEVHB1E330	E 33UF, 25V	1	
C4098	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4099,00	ECJ1VC1H120J	C 12PF, J, 50V	2	
C4102,03	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C4104	ECJ1XC1H680J	C 68PF, J, 50V	1	
C4107	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4120	EEFCD0G560R	56UF,	1	
C4121	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4123	ECJ2FB1C684K	C 68UF, Z, 16V	1	
C4124	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4126	ECJ1XB1C393K	C 0.039UF, K, 16V	1	
C4127	ECJ1VB1H153K	C 0.015UF, K, 50V	1	
C4129	EEVHB0J470	E 47UF, 6.3V	1	
C4130	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4131,32	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C4133	EEEHB1C100R	C 10PF, J, 16V	1	
C4134	ECJ1XC1H101J	C 100PF, J, 50V	1	
C4135-37	ECJ1XB1C104K	C 0.1UF, Z, 16V	3	
C4141	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4142	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C4143	EEVHB0J470	E 47UF, 6.3V	1	
C4144	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C4145-47	ECJ1XB1C104K	C 0.1UF, Z, 16V	3	
C4148	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C4149	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4153,54	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C4155	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C4160	ECJ1XB0J105K	C 1UF, K, 16V	1	
C4161	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4164	J0JCC0000100	CHIP INDUCTOR	1	
C4165	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4172	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4181,82	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4184	ECJ1XB0J105K	C 1UF, K, 16V	1	
C4186	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4191	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4203	EEVHB0J470	E 47UF, 6.3V	1	
C4205	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4208-10	ECJ1XB1C104K	C 0.1UF, Z, 16V	3	
C4215	EEVHB1C470P	E 47UF, 16V	1	
C4216	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C4217,18	ECJ1XC1H181J	C 180PF, J, 50V	2	
C4219,20	ECJ1XC1H330J	C 33PF, J, 50V	2	
C4221	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C4222	EEVHB1C470P	E 47UF, 16V	1	
C4224	EEEHB1C100R	C 10PF, J, 16V	1	
C4225	F1J0J1060004	C 0.010UF, K, 16V	1	
C4227	F1J0J1060004	C 0.010UF, K, 16V	1	
C4229,30	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C4231	EEVHB1C470P	E 47UF, 16V	1	
C4232,33	EEEHP1C100R	C 10PF, J, 16V	2	
C4234,35	ECJ1VB1H272K	C 2700PF, K, 50V	2	
C4236	EEVHB0J470	E 47UF, 6.3V	1	
C4237-48	ECJ1XB1C104K	C 0.1UF, Z, 16V	12	
C4249	EEVHB0J470	E 47UF, 6.3V	1	
C4250-54	ECJ1XB1C104K	C 0.1UF, Z, 16V	5	
C4257,58	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C4259	ECJ1XB0J105K	C 1UF, K, 16V	1	
C4260	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4261	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C4262	ECJ1XB0J105K	C 1UF, K, 16V	1	
C4263-65	ECJ1XB1C104K	C 0.1UF, Z, 16V	3	
C4267-69	ECJ1XB1C104K	C 0.1UF, Z, 16V	3	
C4270	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C4271	ECJ1XB0J105K	C 1UF, K, 16V	1	
C4272	EEVHB0J470	E 47UF, 6.3V	1	
C4273-78	ECJ1XB1C104K	C 0.1UF, Z, 16V	6	
C4279	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C4280	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C4295	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C4296	ECJ1XB0J105K	C 1UF, K, 16V	1	
C4297	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C4298	EEEHB0J330R	C 33PF, J, 6.3V	1	
C4299,00	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C4301	EEEHB0J220R	C 22PF, J, 6.3V	1	
C4302	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4304	EEVHB0J470	E 47UF, 6.3V	1	
C4305-15	ECJ1XB1C104K	C 0.1UF, Z, 16V	11	
C4316	ECJ2FF1C475Z	C 0.047UF, Z, 16V	1	
C4317-21	ECJ1XB1C104K	C 0.1UF, Z, 16V	5	
C4324,25	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C4326	EEVHB0G221	E 220UF, 4V	1	
C4327	ECJ1XC1H150J	C 15PF, J, 50V	1	
C4328	ECJ1XC1H180J	C 18PF, J, 50V	1	
C4329	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4330	ECJ2FF1C475Z	C 0.047UF, Z, 16V	1	
C4331	EEVHB0J470	E 47UF, 6.3V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4332-35	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C4336	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C4338	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4339	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C4456	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C4457	ECJ1XB0J105K	C 1UF, K, 16V	1	
C4459	ECJ1XB0J105K	C 1UF, K, 16V	1	
C4461	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4463,64	F1K1A1060010	C 0.010UF, K,6.3V	2	
C4465,66	ECJ1XC1H102J	C 1000PF, J, 50V	2	
C4468,69	ECJ1XC1H102J	C 1000PF, J, 50V	2	
C4470-73	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C4474-77	ECJ1XC1H102J	C 1000PF, J, 50V	4	
C4478-81	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C4482-84	ECJ1XC1H102J	C 1000PF, J, 50V	3	
C4486-90	ECJ1XB1C104K	C 0.1UF, Z, 16V	5	
C4492	ECJ1XB0J105K	C 1UF, K, 16V	1	
C4493,94	ECJ1VB1H103K	C 0.001UF, K, 50V	2	
C4495-97	ECJ1XB0J105K	C 1UF, K, 16V	3	
C4498-13	ECJ1XC1H102J	C 1000PF, J, 50V	16	
C4514	ECJ1XB0J105K	C 1UF, K, 16V	1	
C4515	EEFCD0G560R	56UF,	1	
C4516-27	ECJ1VB1H103K	C 0.001UF, K, 50V	12	
C4528	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4534-37	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C4587	ECJ2FB0J225K	C 2.2UF, Z, 16V	1	
C4588	EEEHB0G221P	C 220PF, J, 4V	1	
C4589	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4590	ECJ2FB0J225K	C 2.2UF, Z, 16V	1	
C4591	ECJ1XC1H471J	C 470PF, J, 50V	1	
C4780	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C4781-84	ECJ1XC1H102J	C 1000PF, J, 50V	4	
C4785	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4787	EEVHB0J470	E 47UF, 6.3V	1	
C4788	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4789	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C4790	ECJ1XB0J105K	C 1UF, K, 16V	1	
C4791	ECJ1XC1H101J	C 100PF, J, 50V	1	
C4792-96	J0JCC0000100	CHIP INDUCTOR	5	
C4797	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C4798	ECJ1XB0J105K	C 1UF, K, 16V	1	
C4799	EEEHB1C100R	C 10PF, J, 16V	1	
C4800	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C4802	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4803	ECJ2FB0J225K	C 2.2UF, Z, 16V	1	
C5601	ECA1HM220	E 22UF, 50V	1	
C5605	EEUFC1E102	E 1000UF, 25V	1	
C5606	EEUFC1C821	E 820UF, 16V	1	
C5608	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C5609	ECA1HM220	E 22UF, 50V	1	
C5611	EEUFC1E102	E 1000UF, 25V	1	
C5612	EEUFC1C821SB	E 820UF, 16V	1	
C5613	ECJ2XB1E104K	C 0.1UF, K, 25V	1	
C5616	ECJ2XB1E104K	C 0.1UF, K, 25V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C5617	EEUFC1C821SB	E 820UF, 16V	1	
C5618,19	ECJ2XB1E104K	C 0.1UF, K, 25V	2	
C5622	EEUFC1C821	E 820UF, 16V	1	
C5623	ECJ2XB1E104K	C 0.1UF, K, 25V	1	
C5626	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C5631	EEUFC1C102	E 1000UF, 16V	1	
C5637	ECJ2VF1C474Z	C 0.47UF, Z, 16V	1	
C5641-44	ECJ2VF1C104Z	C 0.1UF, Z, 16V	4	
C5670	ECJ2XB1E104K	C 0.1UF, K, 25V	1	
C5672	ECA1HM220	E 22UF, 50V	1	
C5673	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C5813	ECJ2XB1E104K	C 0.1UF, K, 25V	1	
C5818	ECA1CM471	E 470UF, 16V	1	
C5820	ECA1CM102	E 1000UF, 16V	1	
C5821	ECJ2XB1E104K	C 0.1UF, K, 25V	1	
C5823	ECA1CM222	E 2200UF, 16V	1	
C6001-03	ECA2DHG221	E 220UF, 200V	3	
C6005	F1L1E4750004	C 4.7UF, 25V	1	
C6007,08	ECA2CM101	E 100UF, 160V	2	
C6009	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6011	F1L2J392A022	C 3900UF, K,6.3V	1	
C6012	F1L2J562A022	C 5600UF, K,6.3V	1	
C6016	F1L2J392A022	C 3900UF, K,6.3V	1	
C6017	F1L2J562A022	C 5600UF, K,6.3V	1	
C6021-30	ECQE2105RKB	P 1UF, 250V	10	
C6031,32	F1L1E4750004	C 4.7UF, 25V	2	
C6034,35	F1L1E4750004	C 4.7UF, 25V	2	
C6037	ECQE2224KF	P 2.2UF, K,250V	1	
C6043,44	F1L1E4750004	C 4.7UF, 25V	2	
C6046	F1L1E4750004	C 4.7UF, 25V	1	
C6047	F2A2D1510004	E 150UF, 200V	1	
C6048	EEUFC1E221	E 220UF, 25V	1	
C6049	F1L1E4750004	C 4.7UF, 25V	1	
C6050,51	TCUY1C105ZFN	C 1UF, 16V	2	
C6053,54	EEUFC1E221	E 220UF, 25V	2	
C6055	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6056	EEUFC1A101	E 100UF, 10V	1	
C6057	F1L1E4750004	C 4.7UF, 25V	1	
C6058	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6060,61	F1K2J471A014	C 470UF, K,6.3V	2	
C6456	ECA2CM101	E 100UF, 160V	1	
C6457	ECA2CHG100	E 10UF, 160V	1	
C6458	F1L1E4750004	C 4.7UF, 25V	1	
C6459	EEUFC1E470	E 47UF, 25V	1	
C6461	ECA1HM101	E 100UF, 50V	1	
C6462-65	F1L1E4750004	C 4.7UF, 25V	4	
C6466	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6467	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C6468	TCUY1C105ZFN	C 1UF, 16V	1	
C6469	EEUFC1E221	E 220UF, 25V	1	
C6470	ECA1HM221	E 220UF, 50V	1	
C6471	TCUY1C105ZFN	C 1UF, 16V	1	
C6472	ECJ2VB1H333K	C 0.033UF, K, 50V	1	
C6473	TCUY1C105ZFN	C 1UF, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6474	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6475	EEUFC1E221	E 220UF, 25V	1	
C6476	ECA2CM101	E 100UF, 160V	1	
C6478	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6479,80	ECJ2XB1H104K	C 0.1UF, K, 50V	2	
C6490	F1K2J332A014	C 3300UF, K,6.3V	1	
C6491,92	F2A2G100A017	E 100UF, 400V	2	
C6493	ECJ3XB2J222K	C 2200PF, K,630V	1	
C6501-03	ECJ2XB1H104K	C 0.1UF, K, 50V	3	
C6505	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6507	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6509	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C6511,12	F1L1E4750004	C 4.7UF, 25V	2	
C6513	ECA2CM101	E 100UF, 160V	1	
C6521	F1L1E4750004	C 4.7UF, 25V	1	
C6523	ECA1VM470	E 47UF, 35V	1	
C6524	F1K2J471A014	C 470UF, K,6.3V	1	
C6526	ECA2EHG220	E 22UF, 250V	1	
C6529,30	F1K2J471A014	C 470UF, K,6.3V	2	
C6531,32	F1L1E4750004	C 4.7UF, 25V	2	
C6533,34	F1K2J471A014	C 470UF, K,6.3V	2	
C6541	F1L1E4750004	C 4.7UF, 25V	1	
C6543,44	F1K2J102A014	C 1000UF, K,6.3V	2	
C6546	TCUY1C105ZFN	C 1UF, 16V	1	
C6550	ECA2CM101	E 100UF, 160V	1	
C6551	ECQE2224KF	P 2.2UF, K,250V	1	
C6571	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6575	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6577	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6580,81	TCUY1C105ZFN	C 1UF, 16V	2	
C6584	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6585	TCUY1C105ZFN	C 1UF, 16V	1	
C6587	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6588	TCUY1C105ZFN	C 1UF, 16V	1	
C6589	F1L1E4750004	C 4.7UF, 25V	1	
C6590	TCUY1C105ZFN	C 1UF, 16V	1	
C6591	F1L1E4750004	C 4.7UF, 25V	1	
C6598	ECA1CM220	E 22UF, 16V	1	
C6601-03	ECA2DHG221	E 220UF, 200V	3	
C6607	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6608	ECA1EM471	E 470UF, 25V	1	
C6611	F1L2J392A022	C 3900UF, K,6.3V	1	
C6612	F1L2J562A022	C 5600UF, K,6.3V	1	
C6615	F1L2J562A022	C 5600UF, K,6.3V	1	
C6616	F1L2J392A022	C 3900UF, K,6.3V	1	
C6617	F1L2J562A022	C 5600UF, K,6.3V	1	
C6621-30	ECQE2105RKB	P 1UF, 250V	10	
C6631,32	F1L1E4750004	C 4.7UF, 25V	2	
C6634,35	F1L1E4750004	C 4.7UF, 25V	2	
C6637	F1L1E4750004	C 4.7UF, 25V	1	
C6639	F1L1E4750004	C 4.7UF, 25V	1	
C6647	TCUY1C105ZFN	C 1UF, 16V	1	
C6650	ECQE2224KF	P 2.2UF, K,250V	1	
C6651,52	ECJ2XB1H103K	C 0.01UF, K, 50V	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6655,56	EEUFC1A101	E 100UF, 10V	2	
C6659,60	F1K2J471A014	C 470UF, K,6.3V	2	
C6901-04	TCUY1C105ZFN	C 1UF, 16V	4	
C6911,12	ECJ2XB1H102K	C 1000PF, K, 50V	2	
C6917	ECJ2XB1H221K	C 220PF, K, 50V	1	
C6931	F1L2E1040002	E 1000UF, 25V	1	
C6933	F1L2E1040002	E 1000UF, 25V	1	
C6955-58	TCUY1C105ZFN	C 1UF, 16V	4	
C6971,72	ECJ2XB1H102K	C 1000PF, K, 50V	2	
C6977	F1L2E1040002	E 1000UF, 25V	1	
C6979	F1L2E1040002	E 1000UF, 25V	1	
C7101	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7104-06	TCUY1C105ZFN	C 1UF, 16V	3	
C7108-10	TCUY1C105ZFN	C 1UF, 16V	3	
C7135	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7138,39	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C7153	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7161	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7163	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7165	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7182	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7186	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7201	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7203-06	TCUY1C105ZFN	C 1UF, 16V	4	
C7208,09	TCUY1C105ZFN	C 1UF, 16V	2	
C7218,19	TCUY1C105ZFN	C 1UF, 16V	2	
C7222	TCUY1C105ZFN	C 1UF, 16V	1	
C7226,27	ECJ1XC1H220J	C 22PF, J, 50V	2	
C7235	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7237	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7239	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7242	TCUY1C105ZFN	C 1UF, 16V	1	
C7253-56	ECJ1XC1H101J	C 100PF, J, 50V	4	
C7266	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7268	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7270	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7272	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C9000	EEEHB1C470P	C 47PF, J, 16V	1	
C9001	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9004,05	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9006	F1J0J1060004	C 0.010UF, K, 16V	1	
C9007	EEEHB1C470P	C 47PF, J, 16V	1	
C9008	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9009	F1J0J1060004	C 0.010UF, K, 16V	1	
C9010-12	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9013	ECJ1VF1H103Z	C 0.010UF, Z, 50V	1	
C9014	ECJ1XC1H101K	C 100PF, K, 50V	1	
C9015-22	ECJ1XF1C104Z	C 0.1UF, Z, 16V	8	
C9023	EEEHB1C470P	C 47PF, J, 16V	1	
C9024	ECJ1XC1H271J	C 270PF, J, 50V	1	
C9025	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9026,27	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C9028-31	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C9033	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9035,36	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9201,02	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C9203	ECJ1XC1H150J	C 15PF, J, 50V	1	
C9204	ECJ1VC1H080C	C 8PF, C, 50V	1	
C9205	F1J0J1060004	C 0.010UF, K, 16V	1	
C9206,07	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C9303	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9304-57	ECJ1XB1C104K	C 0.1UF, Z, 16V	54	
C9358	EEEHB0G221P	C 220PF, J, 4V	1	
C9359	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9360	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9500	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C9502	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C9503-12	ECJ1XB1C104K	C 0.1UF, Z, 16V	10	
C9513	EEEHB1C470P	C 47PF, J, 16V	1	
C9514-17	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C9518	EEEHB1C470P	C 47PF, J, 16V	1	
C9519	ECJ1XC1H101K	C 100PF, K, 50V	1	
C9701,02	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9703	F1J0J1060004	C 0.010UF, K, 16V	1	
C9705,06	F1J0J1060004	C 0.010UF, K, 16V	2	
C9707	EEEHB1C470P	C 47PF, J, 16V	1	
C9712,13	F1J0J1060004	C 0.010UF, K, 16V	2	
C9714,15	ECGRL0G680R	C 68PF, J, 4V	2	
C9716	ECJ1XC1H220J	C 22PF, J, 50V	1	
C9718	ECJ1XC1H220J	C 22PF, J, 50V	1	
C9719,20	ECJ1XC1H102J	C 1000PF, J, 50V	2	
C9721,22	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9723,24	ECJ2XB1H104K	C 0.1UF, K, 50V	2	
C9725	ECJ1XC1H102J	C 1000PF, J, 50V	1	
C9727	ECJ1XC1H102J	C 1000PF, J, 50V	1	
C9728,29	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C9730,31	EEEHB1C470P	C 47PF, J, 16V	2	
C9732	ECJ1VF1H103Z	C 0.010UF, Z, 50V	1	
C9733	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9734,35	EEEHB1C470P	C 47PF, J, 16V	2	
C9736	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9739,40	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C9741	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9742	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9743,44	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C9900,01	ECJ1VF1H103Z	C 0.010UF, Z, 50V	2	
CB1-B7	K1MN68BA0002	68P CONNECTOR	7	
D3	K1KA30AA0009	30P CONNECTOR	1	
D4	K1KA14A00248	14P CONNECTOR	1	
D5	K1KA31A00007	31P CONNECTOR	1	
D6	K1KA20A00310	20P CONNECTOR	1	
D8	K1KA08AA0104	8P CONNECTOR	1	
D20	K1KA20AA0008	20P CONNECTOR	1	
D25	K1KA20AA0009	20P CONNECTOR	1	
D33,34	K1MN55BA0076	55P CONNECTOR	2	
D2300,01	MA111	DIODE	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D2303,04	MA111	DIODE	2	
D2315,16	B0JCDD000002	DIODE	2	
D2319,20	B0JCDD000002	DIODE	2	
D2332	MA111	DIODE	1	
D2512	MA8056M	ZENER DIODE	1	
D2513,14	MA152K	DIODE	2	
D2520	B3AAA0000770	LED	1	
D2523	MA152K	DIODE	1	
D2524	MA8056M	ZENER DIODE	1	
D2615	B0BC01100001	ZENER DIODE	1	
D2617	MA152	DIODE	1	
D2619-24	MA8140M	ZENER DIODE	6	
D2640-60	MA8140M	ZENER DIODE	21	
D4012-14	MA729	DIODE	3	
D4016	MA728	DIODE	1	
D4025-27	MA111	DIODE	3	
D4029	MA3036L	ZENER DIODE	1	
D5614	B0BC3R700006	ZENER DIODE	1	
D5615	B0BC4R700007	ZENER DIODE	1	
D5616	B0BC6R600005	ZENER DIODE	1	
D5617	B0BC01100001	ZENER DIODE	1	
D5637,38	MA152	DIODE	2	
D5639	MA3047H	ZENER DIODE	1	
D5640	MA3039H	ZENER DIODE	1	
D5641	MA152	DIODE	1	
D5642	MA3100H	ZENER DIODE	1	
D5643	MA152	DIODE	1	
D5644	MA3068M	ZENER DIODE	1	
D5646,47	MA152	DIODE	2	
D5649	MA111	DIODE	1	
D6001,02	B0HBSN000008	DIODE	2	
D6015	B0ECHP000003	DIODE	1	
D6020	B0HBSN000008	DIODE	1	
D6021	B0ECHP000003	DIODE	1	
D6022	B0HBSN000008	DIODE	1	
D6023	B0ECHP000003	DIODE	1	
D6024	B0HBSN000008	DIODE	1	
D6029	B0HBSN000008	DIODE	1	
D6035	MA8033L	ZENER DIODE	1	
D6036	MA111	DIODE	1	
D6040,41	B0ECHP000003	DIODE	2	
D6051	B0ECHP000003	DIODE	1	
D6052,53	B0JCME000037	DIODE	2	
D6054	B0ECHP000003	DIODE	1	
D6055	B0JCME000037	DIODE	1	
D6057	B0ECHP000003	DIODE	1	
D6058-60	MA111	DIODE	3	
D6061	MA8082MTX	ZENER DIODE	1	
D6062	MA111	DIODE	1	
D6063	MA8051L	ZENER DIODE	1	
D6064	MA111	DIODE	1	
D6065	LNJ301MPUJA	LED	1	
D6066,67	MA8330M	ZENER DIODE	2	
D6070	MA111	DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D6451	B0JCME000037	DIODE	1	
D6452,53	MA111	DIODE	2	
D6455	MA111	DIODE	1	
D6456	B0ECHP000003	DIODE	1	
D6459	MA111	DIODE	1	
D6460,61	B0HCKS000002	DIODE	2	
D6462	B0JCME000037	DIODE	1	
D6463	MA8056H	ZENER DIODE	1	
D6464	B0JCME000037	DIODE	1	
D6465,66	MA8330M	ZENER DIODE	2	
D6467	B0ECHP000003	DIODE	1	
D6468	MA111	DIODE	1	
D6470,71	MA111	DIODE	2	
D6473	MA111	DIODE	1	
D6475	MA111	DIODE	1	
D6476	B0ECHP000003	DIODE	1	
D6477	MA111	DIODE	1	
D6478	B0HCKS000002	DIODE	1	
D6479	MA111	DIODE	1	
D6481,82	MA8330M	ZENER DIODE	2	
D6483-90	MA8056H	ZENER DIODE	8	
D6491,92	B0ECHP000003	DIODE	2	
D6495	B0HCKS000002	DIODE	1	
D6496	B0JCME000037	DIODE	1	
D6501,02	MA111	DIODE	2	
D6503	MA8056H	ZENER DIODE	1	
D6509	MA111	DIODE	1	
D6511	B0HCMM000014	DIODE	1	
D6512-14	MA111	DIODE	3	
D6515	MA8240MTX	ZENER DIODE	1	
D6516	MA111	DIODE	1	
D6519	MA111	DIODE	1	
D6520	B0JCKG000002	DIODE	1	
D6521	B0ECHP000003	DIODE	1	
D6522	MA111	DIODE	1	
D6523	B0ECHP000003	DIODE	1	
D6524	MA8051L	ZENER DIODE	1	
D6525	MA111	DIODE	1	
D6526	B0HCMM000014	DIODE	1	
D6527	MA111	DIODE	1	
D6529	B0JCME000037	DIODE	1	
D6541	B0HCKS000002	DIODE	1	
D6542	MA111	DIODE	1	
D6543	B0HCKS000002	DIODE	1	
D6544	MA111	DIODE	1	
D6545	MA8051L	ZENER DIODE	1	
D6546-48	MA8330M	ZENER DIODE	3	
D6549,50	MA111	DIODE	2	
D6551	B0JCME000037	DIODE	1	
D6552,53	MA111	DIODE	2	
D6554	B0HCKS000002	DIODE	1	
D6570	B0HCMM000014	DIODE	1	
D6572	B0ECHP000003	DIODE	1	
D6582	MA8051L	ZENER DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D6583	LNJ301MPUJA	LED	1	
D6584	MA111	DIODE	1	
D6585,86	MA8330M	ZENER DIODE	2	
D6601,02	B0HBSN000008	DIODE	2	
D6615	B0ECHP000003	DIODE	1	
D6620	B0HBSN000008	DIODE	1	
D6621	B0ECHP000003	DIODE	1	
D6622	B0HBSN000008	DIODE	1	
D6623	B0ECHP000003	DIODE	1	
D6624	B0HBSN000008	DIODE	1	
D6629	B0HBSN000008	DIODE	1	
D6635	MA8033L	ZENER DIODE	1	
D6636	MA111	DIODE	1	
D6640	B0ECHP000003	DIODE	1	
D6647	B0ECHP000003	DIODE	1	
D6901-03	MA8056H	ZENER DIODE	3	
D6905	B0ECHP000003	DIODE	1	
D6909,10	B0ECHP000003	DIODE	2	
D6956,57	MA8056H	ZENER DIODE	2	
D6961,62	B0ECHP000003	DIODE	2	
D9000-02	MA3033	ZENER DIODE	3	
D9011,12	MA728	DIODE	2	
D9015,16	MA152K	DIODE	2	
D9700,01	MA728	DIODE	2	
D9900,01	MA152K	DIODE	2	
DG1,G2	K1MN40A00024	40P CONNECTOR	2	
DG3	K1KA20B00155	20P CONNECTOR	1	
DG5	K1KA21B00008	21P CONNECTOR	1	
DG15	K1KA60A00156	60P CONNECTOR	1	
DG20	K1MN30A00068	30P CONNECTOR	1	
FL4004-10	J0HABH000012	LC FILTER	7	
FL4012	J0HABH000012	LC FILTER	1	
FL4014-17	J0HABB000004	LC FILTER	4	
FL4018-20	J0JBD0000043	CHIP INDUCTOR	3	
FL7106	J0HABH000013	LC FILTER	1	
FL7208	J0HABH000013	LC FILTER	1	
FL9000-04	J0HABH000013	LC FILTER	5	
FL9300-02	J0HABH000013	LC FILTER	3	
FL9701,02	J0HABH000012	LC FILTER	2	
FL9703,04	J0HABH000013	LC FILTER	2	
FL9900,01	J0HABH000013	LC FILTER	2	
H1,H2	K1MN40B00045	40P CONNECTOR	2	
H7	K1KA12AA0178	12P CONNECTOR	1	
H22	K1KA11AA0194	11P CONNECTOR	1	
H30	K1MN30A00068	30P CONNECTOR	1	
H50	K1MN35A00015	35P CONNECTOR	1	PAVCA
HMM1-M4	TMM25401	CLAMPER	4	
IC2301	C1BB00000969	IC	1	
IC2305,06	C1BB00000818	IC	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC2602	C1AB00002123	IC	1	
IC2605	AN15861A-VT	IC	1	
IC2608	C1BB00001017	IC	1	
IC4001	C0ABBB000289	IC	1	
IC4002	C0FBBK000038	IC	1	
IC4004	TC74HC4066TL	IC	1	
IC4005	MN102H90MTZ1	IC	1	
IC4006	TVRN723	IC	1	PAVCA
IC4008	TVRN720	IC	1	PAVCA
IC4010	C0EBF0000431	IC	1	
IC4011	C0CBCAC00275	IC	1	
IC4012	C0CBCBF00009	IC	1	
IC4015	C0EBE0000336	IC	1	
IC4016	C0CBCAC00275	IC	1	
IC4018	C1AB00002298	IC	1	
IC4020	C0CBCAC00136	IC	1	
IC4022	C0DBEJG00001	IC	1	
IC4024	C1ZBZ0002790	IC	1	
IC4025	C0JBAP000020	IC	1	
IC4026	C1AB00002234	IC	1	
IC4027	C3ABQJ000040	IC	1	
IC4028	C0DBZFG00055	IC	1	
IC4030	C0EBF0000335	IC	1	
IC4031	C0CBCAC00136	IC	1	
IC5601,02	N0BF2DE00001	DC-DC CONVERTER	2	
IC5803	C0DAEZH00017	IC	1	
IC6001-03	C0ZBZ0000895	IC	3	
IC6004	C0ZBZ0001033	IC	1	
IC6005	NJM2903M	INTEGRATED CIRCUIT	1	
IC6006	C0JBAZ000005	IC	1	
IC6011	AN1431M	LINEAR IC	1	
IC6451	AN1431M	LINEAR IC	1	
IC6452,53	C0CBALC00010	IC	2	
IC6454,55	C0CBADC00075	IC	2	
IC6456	AN1431M	LINEAR IC	1	
IC6471,72	AN1431M	LINEAR IC	2	
IC6491	AN1431M	LINEAR IC	1	
IC6501,02	C0JBAZ000994	IC	2	
IC6511	C0ZBZ0001033	IC	1	
IC6512	C0CBADC00075	IC	1	
IC6521	C0ZBZ0001033	IC	1	
IC6541,42	C0ZBZ0001033	IC	2	
IC6543	C0CBADC00075	IC	1	
IC6581	NJM2903M	INTEGRATED CIRCUIT	1	
IC6601,02	C0ZBZ0000895	IC	2	
IC6605,06	C0JBAZ000005	IC	2	
IC6607	C0JBAA000174	IC	1	
IC6901-04	AN16021A-VT	IC	4	
IC6955-58	AN16021A-VT	IC	4	
IC7101	C0JBAZ001120	IC	1	
IC7104-06	C0JBAZ001120	IC	3	
IC7201-04	C0JBAZ001120	IC	4	
IC9001	TVRN460-3	IC	1	
IC9003	C2CBJG000660	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC9004	C0EBE0000120	IC	1	
IC9005,06	C0JBAZ000856	IC	2	
IC9007	TVRN462-4	IC	1	
IC9008	C0DBEJG00001	IC	1	
IC9200	C1ZBZ0002769	IC	1	
IC9300	MN84512-A	IC	1	
IC9301	PST9128NR	IC (LOGIC)	1	
IC9302	C3ABQJ000031	IC	1	
IC9303	TVRN461-2	IC	1	
IC9500	C1ZBZ0002599	IC	1	
IC9502	C0JBAZ000856	IC	1	
IC9504	C0JBAZ000856	IC	1	
IC9700	C0DBEJG00001	IC	1	
IC9702	C0DBAZH00020	IC	1	
JK2601	K1U939A00001	CONNECTOR	1	
JK2605	K2HA204A0041	JACK	1	
JS2304-11	ERJ6GEY0R00	M 0 OHM, 1/10W	8	
JS2312	J0JCC0000100	CHIP INDUCTOR	1	
JS2317-24	ERJ6GEY0R00	M 0 OHM, 1/10W	8	
JS2329-32	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
JS2606,07	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
JS2614-17	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
JS2620,21	J0JCC0000100	CHIP INDUCTOR	2	
JS2624	J0JCC0000100	CHIP INDUCTOR	1	
JS2627,28	J0JCC0000100	CHIP INDUCTOR	2	
JS2630-37	J0JCC0000100	CHIP INDUCTOR	8	
JS2645	J0JCC0000100	CHIP INDUCTOR	1	
JS2652-63	ERJ6GEY0R00	M 0 OHM, 1/10W	12	
JS2672-87	ERJ6GEY0R00	M 0 OHM, 1/10W	16	
JS2692-03	ERJ6GEY0R00	M 0 OHM, 1/10W	12	
JS2705-12	ERJ6GEY0R00	M 0 OHM, 1/10W	8	
JS2714-25	ERJ6GEY0R00	M 0 OHM, 1/10W	12	
JS2726	J0JCC0000100	CHIP INDUCTOR	1	
JS2729	J0JCC0000100	CHIP INDUCTOR	1	
JS2737,38	J0JCC0000100	CHIP INDUCTOR	2	
JS2740-42	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
JS2744-49	ERJ6GEY0R00	M 0 OHM, 1/10W	6	
JS2760-63	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
JS2764	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
JS2765-68	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
JS4003	J0JCC0000100	CHIP INDUCTOR	1	
JS4009	J0JCC0000100	CHIP INDUCTOR	1	
JS4013-15	J0JCC0000100	CHIP INDUCTOR	3	
JS4019-21	J0JCC0000100	CHIP INDUCTOR	3	
JS4023-26	J0JCC0000100	CHIP INDUCTOR	4	
JS4033-35	J0JCC0000100	CHIP INDUCTOR	3	
JS4044,45	J0JCC0000100	CHIP INDUCTOR	2	
JS4055	J0JCC0000100	CHIP INDUCTOR	1	
JS4059-63	J0JCC0000100	CHIP INDUCTOR	5	
JS4067	J0JCC0000100	CHIP INDUCTOR	1	
JS4071	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
JS4072,73	J0JCC0000100	CHIP INDUCTOR	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
JS5601	J0JCC0000100	CHIP INDUCTOR	1	
JS5609-12	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
JS5801,02	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
JS5805-08	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
JS5810-17	ERJ6GEY0R00	M 0 OHM, 1/10W	8	
K1	K1KA12BA0053	12P CONNECTOR	1	
K2	K1KA02BA0061	2P CONNECTOR	1	
L2305,06	G0A100ZA0033	CHOKE COIL	2	
L2312,13	G0A100ZA0033	CHOKE COIL	2	
L2316-19	J0JJC0000011	CHIP INDUCTOR	4	
L2615	J0JHC0000078	CHIP INDUCTOR	1	
L2617	J0JHC0000078	CHIP INDUCTOR	1	
L4003	J0JHC0000078	CHIP INDUCTOR	1	
L4006	J0JHC0000078	CHIP INDUCTOR	1	
L4008	J0JHC0000078	CHIP INDUCTOR	1	
L4012	J0JCC0000241	CHIP INDUCTOR	1	
L4013	J0JHC0000078	CHIP INDUCTOR	1	
L4019	J0JHC0000078	CHIP INDUCTOR	1	
L4021,22	J0JHC0000045	CHIP INDUCTOR	2	
L4024,25	J0JHC0000078	CHIP INDUCTOR	2	
L4027	J0JHC0000078	CHIP INDUCTOR	1	
L4028	J0JCC0000241	CHIP INDUCTOR	1	
L4031	J0JHC0000078	CHIP INDUCTOR	1	
L4035	J0JHC0000078	CHIP INDUCTOR	1	
L4036	J0JCC0000241	CHIP INDUCTOR	1	
L4037-39	J0JHC0000078	CHIP INDUCTOR	3	
L4040,41	J0JCC0000100	CHIP INDUCTOR	2	
L4043	J0JCC0000241	CHIP INDUCTOR	1	
L4044	J0JCC0000100	CHIP INDUCTOR	1	
L4047,48	J0JHC0000078	CHIP INDUCTOR	2	
L5604	G0A470GA0002	CHOKE COIL	1	
L5606	G0A220GA0002	CHOKE COIL	1	
L5607	G0C101K00023	PEAKING COIL	1	
L5609	TALL08N120KA	INDUCTION COIL	1	
L5611	G1A150ZA0007	CHOKE COIL	1	
L5612	G0A220GA0002	CHOKE COIL	1	
L5613,14	G1A150ZA0007	CHOKE COIL	2	
L5615	G0A220GA0002	CHOKE COIL	1	
L5616	G1A150ZA0007	CHOKE COIL	1	
L5808	G0A100GA0013	CHOKE COIL	1	
L5810	G0A100GA0013	CHOKE COIL	1	
L6002-04	G0ZZ00002183	PEAKING COIL	3	
L6005	G0C101K00023	PEAKING COIL	1	
L6011-13	G0AR60MA0003	CHOKE COIL	3	
L6014,15	G0A1R0MA0003	CHOKE COIL	2	
L6018	J0JJC0000021	CHIP INDUCTOR	1	
L6019	G0ZZ00002183	PEAKING COIL	1	
L6022	J0JJC0000021	CHIP INDUCTOR	1	
L6024-27	G0ZZ00002183	PEAKING COIL	4	
L6034-37	G0ZZ00002183	PEAKING COIL	4	
L6042,43	J0JJC0000021	CHIP INDUCTOR	2	
L6047	J0JJC0000021	CHIP INDUCTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L6050	G0ZZ00002183	PEAKING COIL	1	
L6451	J0JJC0000021	CHIP INDUCTOR	1	
L6453	J0JJC0000021	CHIP INDUCTOR	1	
L6471	J0JJC0000021	CHIP INDUCTOR	1	
L6472	G0ZZ00002183	PEAKING COIL	1	
L6602	G0ZZ00002183	PEAKING COIL	1	
L6604,05	G0ZZ00002183	PEAKING COIL	2	
L6611-13	G0AR60MA0003	CHOKE COIL	3	
L6614,15	G0A1R0MA0003	CHOKE COIL	2	
L6618	J0JJC0000021	CHIP INDUCTOR	1	
L6624-27	G0ZZ00002183	PEAKING COIL	4	
L6634-37	G0ZZ00002183	PEAKING COIL	4	
L6647	J0JJC0000021	CHIP INDUCTOR	1	
L9200	G1C150KA0038	INDUCTION COIL	1	
L9500,01	J0JHC0000078	CHIP INDUCTOR	2	
L9700	G1C4R3M00003	CHIP INDUCTOR	1	
L9701	G1C6R8M00009	CHIP INDUCTOR	1	
PA7	K1KA08AA0192	8P CONNECTOR	1	
PA10	K1KA06A00452	6P CONNECTOR	1	
PA20	K1MN30A00068	30P CONNECTOR	1	
PA30	K1MN30A00068	30P CONNECTOR	1	
PA5601,02	K5H4022A0023	FUSE	2	
PB5	K1KA11AA0194	11P CONNECTOR	1	
PB7	K1KA08AA0192	8P CONNECTOR	1	
PC6458	B3PBA0000223	IC	1	
PC6467	B3PBA0000223	IC	1	
PC6469	B3PBA0000223	IC	1	
PC6474	B3PBA0000223	IC	1	
PC6480	B3PBA0000223	IC	1	
PC6503	B3PBA0000233	IC	1	
PC6505	B3PBA0000233	IC	1	
PC6507	B3PBA0000233	IC	1	
PC6509,10	B3PBA0000234	IC	2	
PC6517	B3PBA0000223	IC	1	
Q2300	2SC584500L	TRANSISTOR	1	
Q2301	2SD601A	TRANSISTOR	1	
Q2302	2SC584500L	TRANSISTOR	1	
Q2314-17	2SC584500L	TRANSISTOR	4	
Q2323	2SA207700L	TRANSISTOR	1	
Q2510,11	2SD601A	TRANSISTOR	2	
Q2519	2SB709A	TRANSISTOR	1	
Q2609	2SD601A	TRANSISTOR	1	
Q2611	2SD601A	TRANSISTOR	1	
Q2612	2SB709A	TRANSISTOR	1	
Q2618,19	2SD601A	TRANSISTOR	2	
Q4001	2SA207700L	TRANSISTOR	1	
Q4004	2SD601A	TRANSISTOR	1	
Q4006-09	2SD601A	TRANSISTOR	4	
Q4012	2SD601A	TRANSISTOR	1	
Q4015-17	2SD601A	TRANSISTOR	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q4019-21	2SD601A	TRANSISTOR	3	
Q4039	2SD601A	TRANSISTOR	1	
Q4043,44	2SD601A	TRANSISTOR	2	
Q4045	2SA207700L	TRANSISTOR	1	
Q4049	2SA207700L	TRANSISTOR	1	
Q4051-54	2SD601A	TRANSISTOR	4	
Q4055	2SA207700L	TRANSISTOR	1	
Q4056-59	2SD601A	TRANSISTOR	4	
Q4062	2SD601A	TRANSISTOR	1	
Q4066,67	2SK2731T146	FET	2	
Q4068	2SD601A	TRANSISTOR	1	
Q5601	B1DHDC000028	TRANSISTOR	1	
Q5602	2SC584500L	TRANSISTOR	1	
Q5603	B1DHDC000028	TRANSISTOR	1	
Q5604,05	2SC584500L	TRANSISTOR	2	
Q5606	B1DHDC000028	TRANSISTOR	1	
Q5607	2SC584500L	TRANSISTOR	1	
Q5610	2SC584500L	TRANSISTOR	1	
Q5613	2SC584500L	TRANSISTOR	1	
Q5641-43	2SA207700L	TRANSISTOR	3	
Q5644	2SC584500L	TRANSISTOR	1	
Q6001-03	B1JADN000001	TRANSISTOR	3	
Q6006-08	B1JADN000001	TRANSISTOR	3	
Q6011	2SD2185	TRANSISTOR	1	
Q6012	2SB1073001TV	TRANSISTOR	1	
Q6013	2SD2185	TRANSISTOR	1	
Q6014	2SB1073001TV	TRANSISTOR	1	
Q6021	B1DEKM000001	TRANSISTOR	1	
Q6024	B1DEKM000001	TRANSISTOR	1	
Q6025	2SK620	FET	1	
Q6041,42	B1DFKM000002	TRANSISTOR	2	
Q6045	2SK326800L	FET	1	
Q6046	B1DFKM000002	TRANSISTOR	1	
Q6051	2SD1263A	TRANSISTOR	1	
Q6052	2SC1473A	TRANSISTOR	1	
Q6055,56	2SD601A	TRANSISTOR	2	
Q6451	2SD1263A	TRANSISTOR	1	
Q6454	2SC1473A	TRANSISTOR	1	
Q6461	B1BBCJ000004	TRANSISTOR	1	
Q6462	2SB709A	TRANSISTOR	1	
Q6463	2SD601A	TRANSISTOR	1	
Q6471	B1BBCJ000004	TRANSISTOR	1	
Q6472	2SB709A	TRANSISTOR	1	
Q6474	2SD814A	TRANSISTOR	1	
Q6476,77	2SD601A	TRANSISTOR	2	
Q6491	2SD1263A	TRANSISTOR	1	
Q6492	2SC1473A	TRANSISTOR	1	
Q6501-05	2SK620	FET	5	
Q6511,12	B1DFGL000008	TRANSISTOR	2	
Q6520	2SD601A	TRANSISTOR	1	
Q6521	B1DFES000002	TRANSISTOR	1	
Q6522-28	2SK400000L	FET	7	
Q6530	2SB1073001TV	TRANSISTOR	1	
Q6541	2SB1073001TV	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q6542	2SK399500L	FET	1	
Q6544-46	2SK399500L	FET	3	
Q6548	2SK399500L	FET	1	
Q6551	2SD601A	TRANSISTOR	1	
Q6552	B1DEET000002	TRANSISTOR	1	
Q6553	2SB1073001TV	TRANSISTOR	1	
Q6554	2SD2185	TRANSISTOR	1	
Q6555	B1DFES000002	TRANSISTOR	1	
Q6581	2SD601A	TRANSISTOR	1	
Q6583,84	2SK620	FET	2	
Q6601-03	B1JADN000001	TRANSISTOR	3	
Q6606-08	B1JADN000001	TRANSISTOR	3	
Q6611	2SD2185	TRANSISTOR	1	
Q6612	2SB1073001TV	TRANSISTOR	1	
Q6613	2SD2185	TRANSISTOR	1	
Q6614	2SB1073001TV	TRANSISTOR	1	
Q6621	B1DEKM000001	TRANSISTOR	1	
Q6624	B1DEKM000001	TRANSISTOR	1	
Q6901	2SK620	FET	1	
Q9000,01	2SD601A	TRANSISTOR	2	
Q9003	B1DHCC000034	TRANSISTOR	1	
Q9004	2SB709A	TRANSISTOR	1	
Q9008,09	2SK2731T146	FET	2	
Q9010,11	2SD601A	TRANSISTOR	2	
Q9012,13	2SK2731T146	FET	2	
Q9020-23	2SD601A	TRANSISTOR	4	
Q9500	2SK2731T146	FET	1	
Q9700	2SD601A	TRANSISTOR	1	
Q9701,02	B1MBCDA00002	TRANSISTOR	2	
Q9703,04	2SD601A	TRANSISTOR	2	
Q9900,01	2SD601A	TRANSISTOR	2	
R2302	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R2303	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R2304	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R2305	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R2306	ERJ6GEYJ821	M 820 OHM,J,1/10W	1	
R2307	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R2308,09	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	2	
R2310	ERJ3GEYJ184	M 180KOHM,J,1/16W	1	
R2311	ERJ12YJ821	M 820 OHM,J, 1/2W	1	
R2312,13	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R2316-19	J0JCC0000100	CHIP INDUCTOR	4	
R2320	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R2322	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2324	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R2331	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2338	J0JCC0000100	CHIP INDUCTOR	1	
R2342,43	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R2349	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R2350	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R2351	ERJ3GEYJ563	M 56KOHM,J,1/16W	1	
R2352,53	ERJ3GEYJ223	M 22KOHM,J,1/16W	2	
R2357	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2358,59	ERJ3GEYJ683	M 68KOHM,J,1/16W	2	
R2360	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R2363	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R2364	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R2365,66	ERJ3GEYJ683	M 68KOHM,J,1/16W	2	
R2367	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R2368	ERJ3GEYJ563	M 56KOHM,J,1/16W	1	
R2369,70	ERJ3GEYJ223	M 22KOHM,J,1/16W	2	
R2388,89	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R2390	ERJ3GEYJ203	M 20KOHM,J,1/16W	1	
R2391	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2392	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R2393	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2394	ERJ3GEYJ203	M 20KOHM,J,1/16W	1	
R2395,96	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R2397,98	ERJ3GEYJ473	M 47KOHM,J,1/16W	2	
R2436	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2437,38	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R2444,45	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R2448,49	ERJ6GEYJ510	M 51 OHM,J,1/10W	2	
R2450	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2451,52	ERJ6GEYJ510	M 51 OHM,J,1/10W	2	
R2453	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2460	ERJ6ENF1373	M 137KOHM, 1/10W	1	
R2461	ERJ6ENF1103	M 110KOHM, 1/10W	1	
R2464,65	ERJ6GEYJ120	M 12 OHM,J,1/10W	2	
R2468,69	ERJ6GEYJ331	M 330 OHM,J,1/10W	2	
R2488,89	ERJ6GEYJ120	M 12 OHM,J,1/10W	2	
R2499	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R2501	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2516	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2517	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R2520	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R2524	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2525	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R2526	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R2542	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2545	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2550	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2553	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2557	ERJ6ENF8200	M 820 OHM, 1/10W	1	
R2607	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2640,41	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R2645	ERJ6GEYJ183	M 18KOHM,J,1/10W	1	
R2646	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2647	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R2648	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2649	ERJ6GEYJ183	M 18KOHM,J,1/10W	1	
R2650	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2651	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R2652	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2655	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R2659,60	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R2673	ERJ6GEY0R00	M 0 OHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2680,81	ERJ3GEYJ184	M 180KOHM,J,1/16W	2	
R2682	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R2686	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R2687	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R2690	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R2693	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R2695	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R2696	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R2698	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R2699	J0JCC0000100	CHIP INDUCTOR	1	
R2700	ERJ3GEYJ274	M 270KOHM,J,1/16W	1	
R2702	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R2708	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2729-31	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R2733-36	ERJ3GEYJ221	M 220 OHM,J,1/16W	4	
R2737	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2738	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2741	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2744	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2746	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2747	J0JCC0000100	CHIP INDUCTOR	1	
R2753	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R2754	J0JCC0000100	CHIP INDUCTOR	1	
R2755	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R2756	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R2758	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2759	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R2761-64	ERJ3GEYJ221	M 220 OHM,J,1/16W	4	
R2767	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2769,70	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R2772	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2775	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R2777-79	ERJ6ENF75R0	M 75 OHM, 1/10W	3	
R2793-95	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R2797-00	ERJ3GEYJ221	M 220 OHM,J,1/16W	4	
R2801,02	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R2804	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2807,08	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R2810,11	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R2814,15	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R2817,18	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R2820	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2821	ERJ6GEYJ183	M 18KOHM,J,1/10W	1	
R2822-25	ERJ3GEYJ221	M 220 OHM,J,1/16W	4	
R2830	ERJ3GEYJ823	M 82KOHM,J,1/16W	1	
R2832,33	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R2835	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R2837	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R2838	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2848-51	ERJ6GEYJ393	M 39KOHM,J,1/10W	4	
R2854,55	ERJ6GEYJ393	M 39KOHM,J,1/10W	2	
R2856	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R2858	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R2859-61	ERJ6GEYJ393	M 39KOHM,J,1/10W	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2862	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R2864	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R2865	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R2868,69	ERJ6ENF75R0	M 75 OHM, 1/10W	2	
R2881	J0JCC0000100	CHIP INDUCTOR	1	
R2883	J0JCC0000100	CHIP INDUCTOR	1	
R2887	J0JCC0000100	CHIP INDUCTOR	1	
R2891,92	J0JCC0000100	CHIP INDUCTOR	2	
R2894	J0JCC0000100	CHIP INDUCTOR	1	
R2896	J0JCC0000100	CHIP INDUCTOR	1	
R2899	J0JCC0000100	CHIP INDUCTOR	1	
R3751	ERJ6ENF1621	M1.62KOHM, 1/10W	1	
R3753	ERJ6ENF3161	M3.16KOHM, 1/10W	1	
R3755	ERJ6ENF2321	M2.32KOHM, 1/10W	1	
R3756	ERJ6ENF1741	M1.74KOHM, 1/10W	1	
R3758	ERJ6ENF6651	M6.65KOHM, 1/10W	1	
R4001,02	J0JCC0000100	CHIP INDUCTOR	2	
R4003	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4004	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R4005	J0JCC0000100	CHIP INDUCTOR	1	
R4006	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R4007	J0JCC0000100	CHIP INDUCTOR	1	
R4008	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R4009	J0JCC0000100	CHIP INDUCTOR	1	
R4010	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R4015	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4016	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R4017	ERJ3GEYJ123	M 12KOHM,J,1/16W	1	
R4018	ERJ3GEYJ563	M 56KOHM,J,1/16W	1	
R4020	J0JCC0000100	CHIP INDUCTOR	1	
R4021	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R4022	ERJ3GEYJ123	M 12KOHM,J,1/16W	1	
R4023	ERJ3GEYJ563	M 56KOHM,J,1/16W	1	
R4024,25	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R4026	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R4028,29	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R4036	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4039	ERJ3GEYJ123	M 12KOHM,J,1/16W	1	
R4040	J0JCC0000100	CHIP INDUCTOR	1	
R4045	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R4047	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R4048	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4050	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R4052	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R4053	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R4055	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4056	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4059	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4063	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4064-66	TAJAAH0101JV	M 100 OHM,J,1/16W	3	
R4068,69	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R4070	ERJ3GEYJ154	M 150KOHM,J,1/16W	1	
R4071-76	TAJAAH0101JV	M 100 OHM,J,1/16W	6	
R4077	J0JCC0000100	CHIP INDUCTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4078,79	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R4082	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R4083	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4086	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R4088-90	TAJAAH0101JV	M 100 OHM,J,1/16W	3	
R4091	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R4092	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R4094	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R4095	J0JCC0000100	CHIP INDUCTOR	1	
R4098,99	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R4101	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R4102	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R4104	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R4105	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R4106	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R4108	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R4109	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R4114	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R4121	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R4123	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R4124	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4125	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R4126	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R4128	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R4129	ERJ3EKF3901	M 3.9KOHM, 1/16W	1	
R4130	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R4134	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R4135	ERJ3EKF1801	M 1.8KOHM, 1/16W	1	
R4138	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R4139	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R4141,42	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R4144	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R4145	J0JCC0000100	CHIP INDUCTOR	1	
R4146	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R4148,49	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R4151-53	ERJ3GEYJ102	M 1KOHM,J,1/16W	3	
R4155	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4162	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R4171-73	J0JCC0000100	CHIP INDUCTOR	3	
R4174	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4177	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R4179	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4181	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R4182,83	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R4184	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R4185	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R4188	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R4192	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R4193	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4199,00	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R4201	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4202	ERJ3EKF7151	M7.15KOHM, 1/16W	1	
R4203	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R4205	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4208	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R4212	J0JCC0000100	CHIP INDUCTOR	1	
R4218	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R4219	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4223	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4224	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4225	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R4226	J0JCC0000100	CHIP INDUCTOR	1	
R4230,31	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R4237	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4238	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R4252,53	ERJ3GEYJ823	M 82KOHM,J,1/16W	2	
R4254	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4255	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R4256,57	ERJ3GEYJ104	M 100KOHM,J,1/16W	2	
R4259	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R4260,61	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	2	
R4262,63	ERJ3GEYJ473	M 47KOHM,J,1/16W	2	
R4264	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R4266	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4267,68	ERJ3GEYJ473	M 47KOHM,J,1/16W	2	
R4269	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R4322	J0JCC0000100	CHIP INDUCTOR	1	
R4327,28	J0JCC0000100	CHIP INDUCTOR	2	
R4329	ERJ3EKF1500	M 150 OHM, 1/16W	1	
R4339	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	
R4344,45	ERJ3EKF1301	M 1.3KOHM, 1/16W	2	
R4346	ERJ3EKF1001	M 1KOHM, 1/16W	1	
R4347	ERJ3EKF2201	M 2.2KOHM, 1/16W	1	
R4349,50	ERJ3EKF1801	M 1.8KOHM, 1/16W	2	
R4351	ERJ3EKF1501	M 1.5KOHM, 1/16W	1	
R4356,57	ERJ6GEYJ471	M 470 OHM,J,1/10W	2	
R4358	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R4359	ERJ3EKF2201	M 2.2KOHM, 1/16W	1	
R4361	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R4365	J0JCC0000100	CHIP INDUCTOR	1	
R4367	J0JCC0000100	CHIP INDUCTOR	1	
R4370	J0JCC0000100	CHIP INDUCTOR	1	
R4371	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R4375	J0JCC0000100	CHIP INDUCTOR	1	
R4379,80	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	2	
R4382	ERJ3EKF1600	M 160 OHM, 1/16W	1	
R4383	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4388,89	J0JCC0000100	CHIP INDUCTOR	2	
R4391	ERJ3EKF1371	M 13.7 OHM, 1/16W	1	
R4392	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4408	ERJ3EKF1741	M 17.4 OHM, 1/16W	1	
R4409	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R4411	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R4414	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R4416	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R4421	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R4423	EXB38V220J	RESISTOR ARRAY	1	
R4426	EXB38V220J	RESISTOR ARRAY	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4427	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R4428	EXB38V220J	RESISTOR ARRAY	1	
R4433,34	EXB38V220J	RESISTOR ARRAY	2	
R4435-37	ERJ3GEYJ220	M 22 OHM,J,1/16W	3	
R4441,42	D1HG5608A002	NETWORK RESISTER	2	
R4443	EXB38V560J	RESISTOR ARRAY	1	
R4444	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R4445-47	ERJ3GEYJ560	M 56 OHM,J,1/16W	3	
R4448,49	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R4450-54	J0JCC0000100	CHIP INDUCTOR	5	
R4456,57	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R4458,59	ERJ3EKF3302	M 33KOHM, 1/16W	2	
R4460	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R4461,62	ERJ3EKF2202	M 22KOHM, 1/16W	2	
R4463	ERJ3EKF6192	M61.9KOHM, 1/16W	1	
R4464	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4465	ERJ3EKF6192	M61.9KOHM, 1/16W	1	
R4466	J0JCC0000100	CHIP INDUCTOR	1	
R4469	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4471	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R4472	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R4473	J0JCC0000100	CHIP INDUCTOR	1	
R4474	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4480	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R4481	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4482,83	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R4484	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R4485,86	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R4487	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R4488,89	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R4490,91	ERJ3EKF1800	M 180 OHM, 1/16W	2	
R4492,93	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	
R4494	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R4495,96	ERJ3GEYJ473	M 47KOHM,J,1/16W	2	
R4497,98	ERJ3GEYJ471	M 470 OHM,J,1/16W	2	
R4516	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R4522	J0JCC0000100	CHIP INDUCTOR	1	
R4524	J0JCC0000100	CHIP INDUCTOR	1	
R4527	ERJ3EKF1202	M 12KOHM, 1/16W	1	
R4528	ERJ3EKF1800	M 180 OHM, 1/16W	1	
R4529	ERJ3EKF2001	M 2KOHM, 1/16W	1	
R4530	ERJ3EKF4302	M 43KOHM, 1/16W	1	
R4531,32	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R4533-37	J0JCC0000100	CHIP INDUCTOR	5	
R4540,41	J0JCC0000100	CHIP INDUCTOR	2	
R4543,44	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R4545,46	ERJ3GEYJ330	M 33 OHM,J,1/16W	2	
R4547-50	EXB2HV680J	RESISTOR ARRAY	4	
R4551,52	J0JCC0000100	CHIP INDUCTOR	2	
R4557	ERJ3GEYJ750	M 75 OHM,J,1/16W	1	
R4558	J0JCC0000100	CHIP INDUCTOR	1	
R4559	ERJ3GEYJ203	M 20KOHM,J,1/16W	1	
R4560,61	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R4562	TAJAAH0680JV	M 68 OHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4564-66	TAJAAH0680JV	M 68 OHM,J,1/16W	3	
R4569	EXB38V680J	RESISTOR ARRAY	1	
R4570	EXB2HV680J	RESISTOR ARRAY	1	
R4571	EXB38V680J	RESISTOR ARRAY	1	
R4572,73	ERJ3EKF3002	M 30KOHM, 1/16W	2	
R4575-77	J0JCC0000100	CHIP INDUCTOR	3	
R4578,79	ERJ3EKF1741	M 17.4 OHM, 1/16W	2	
R4581-85	J0JCC0000100	CHIP INDUCTOR	5	
R4590	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R4592	ERJ3GEYJ820	M 82 OHM,J,1/16W	1	
R4593	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R4594	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4596	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R4597	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4600	J0JCC0000100	CHIP INDUCTOR	1	
R4602	J0JCC0000100	CHIP INDUCTOR	1	
R4603-22	ERJ3GEYJ820	M 82 OHM,J,1/16W	20	
R4623	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R4624-26	EXB38V820J	RESISTOR ARRAY	3	
R4627	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4630	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4632,33	ERJ3GEYJ223	M 22KOHM,J,1/16W	2	
R4636	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R4638	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4652	ERJ3GEYJ821	M 820 OHM,J,1/16W	1	
R4660,61	J0JCC0000100	CHIP INDUCTOR	2	
R4666	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R4667,68	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R4674	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4676,77	ERJ3GEYJ474	M 470KOHM,J,1/16W	2	
R4678	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R4682,83	ERJ3EKF1741	M 17.4 OHM, 1/16W	2	
R4684	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4685	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R4686	J0JCC0000100	CHIP INDUCTOR	1	
R4690	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4703	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4706	J0JCC0000100	CHIP INDUCTOR	1	
R4708-47	ERJ6GEY0R00	M 0 OHM, 1/10W	40	
R4748	ERJ6ENF7151	M7.15KOHM, 1/10W	1	
R4749	ERJ3EKF4302	M 43KOHM, 1/16W	1	
R4750	ERJ3EKF6801	M 6.8KOHM, 1/16W	1	
R4751,52	ERJ3EKF1800	M 180 OHM, 1/16W	2	
R4754	ERJ3EKF2702V	M27.0KOHM, 1/16W	1	
R4756	J0JCC0000100	CHIP INDUCTOR	1	
R4757	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4758	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R4759,60	ERJ3GEYJ473	M 47KOHM,J,1/16W	2	
R4761,62	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R4765	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R4767	J0JCC0000100	CHIP INDUCTOR	1	
R4771	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R4775	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4780-87	ERJ6GEY0R00	M 0 OHM, 1/10W	8	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R5601	ERJ6ENF4532	M4.53KOHM, 1/10W	1	
R5603	ERJ6ENF2550	M 255 OHM, 1/10W	1	
R5605	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R5606	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R5607	ERJ6ENF1502	M 15KOHM, 1/10W	1	
R5609	ERJ6ENF1871	M1.87KOHM, 1/10W	1	
R5610	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R5615,16	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R5617,18	ERJ6GEYJ221	M 220 OHM,J,1/10W	2	
R5619	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R5620	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R5621	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R5623,24	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R5625-27	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	3	
R5630	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R5632	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R5633	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R5634	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R5635	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R5637,38	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R5639	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R5640	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R5641	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R5642	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R5643	ERJ6GEYJ681	M 680 OHM,J,1/10W	1	
R5644	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R5645,46	ERJ6ENF2201	M 2.2KOHM, 1/10W	2	
R5647	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R5648	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	1	
R5649	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R5650	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R5651	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R5653-56	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R5657,58	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R5659	ERJ6ENF4700	M 470 OHM, 1/10W	1	
R5660	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R5662	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R5670	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R5672	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R5675	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R5676	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R5679	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R5680	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R5692	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R5693	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R5694,95	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R5815	ERJ6ENF3900	M 390 OHM, 1/10W	1	
R5819	ERJ6ENF2941	M2.94KOHM, 1/10W	1	
R5820	ERX3FJSR22D	M 2.2 OHM, J, 3W	1	
R6001	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6002-05	ERJ6GEYJ151	M 150 OHM,J,1/10W	4	
R6006,07	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6008,09	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6011-16	ERJ14YJ150U	M 15 OHM, J,1/4W	6	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6019-22	ERJ14YJ150U	M 15 OHM, J,1/4W	4	
R6023	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6024	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6025	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6026	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6027,28	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R6029-31	ERJ6GEYJ103	M 10KOHM,J,1/10W	3	
R6033	ERJ14YJ204	M 200KOHM, J,1/4W	1	
R6034,35	ERJ14YJ150U	M 15 OHM, J,1/4W	2	
R6041,42	ERJ14YJ5R6U	M 6.2OHM, 1/4W	2	
R6049,50	ERJ14YJ5R6U	M 6.2OHM, 1/4W	2	
R6055	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6056	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6057	ERG1FJS470D	M 47 OHM, J, 1W	1	
R6059,60	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R6061	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R6062,63	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6067	ERG1FJS472D	M 4.7KOHM, J, 1W	1	
R6068	ERG2FJS123D	M 12KOHM, J, 2W	1	
R6069,70	ERJ6ENF2202	M 2.2KOHM, 1/10W	2	
R6073	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R6074	ERJ6ENF2402	M 24KOHM, 1/10W	1	
R6076	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6077,78	ERX3FJSR22D	M 2.2 OHM, J, 3W	2	
R6079,80	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6081	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6082,83	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R6084	ERJ14YJ224	M 220KOHM, J,1/4W	1	
R6085,86	ERJ6GEYJ470	M 47 OHM,J,1/10W	2	
R6087	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6088	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6089	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6090	ERJ14YJ181U	M 181 OHM, J,1/4W	1	
R6091	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6092	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R6101	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R6102	EXB38V470J	RESISTOR ARRAY	1	
R6104	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R6105	EXB38V472J	RESISTOR ARRAY	1	
R6107	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R6110	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R6118,19	ERJ6ENF3902	M 39KOHM, 1/10W	2	
R6120	ERJ6ENF7501	M 7.5KOHM, 1/10W	1	
R6121	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6123	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R6124	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6125	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6126	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R6431	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6433	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6439,40	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6450	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R6451	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6452	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6453	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6454,55	ERJ14YJ103	M 10KOHM, J,1/4W	2	
R6456	ERJ6ENF1183	M 118KOHM, 1/10W	1	
R6457,58	ERJ6ENF2551	M2.55KOHM, 1/10W	2	
R6459	ERJ14YJ104	M 100KOHM, J,1/4W	1	
R6460	ERJ14YJ203U	M 20KOHM, 1/2W	1	
R6461	ERG1FJS471D	M 470 OHM, J, 1W	1	
R6463	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6464	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6465	ERG3FNJS8R2E	M 8.2 OHM, J, 3W	1	
R6466	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6467	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R6468	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6469	ERJ6ENF1602	M 16KOHM, 1/10W	1	
R6471	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	
R6472	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6473	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	1	
R6474	ERG1FJS121D	M 120 OHM, J, 1W	1	
R6475	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R6476	ERJ6ENF2743	M 274KOHM, 1/10W	1	
R6478	ERJ6ENF6981	M6.98KOHM, 1/10W	1	
R6479	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6480	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6481	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R6482	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6483	ERJ14YJ752	M 75KOHM, J,1/4W	1	
R6484	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6485,86	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6487	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6488	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6489	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6491	ERJ14YJ104	M 100KOHM, J,1/4W	1	
R6492	ERJ6ENF2003	M 200KOHM, 1/10W	1	
R6493	ERJ6ENF2703	M 270KOHM, 1/10W	1	
R6495,96	ERJ6GEYJ154	M 150KOHM,J,1/10W	2	
R6497	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6498,99	ERG2FNJS8R2E	M 8.2 OHM, J, 2W	2	
R6500	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R6501-09	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	9	
R6510	ERX3FJS2R2D	M 2.2 OHM, J, 3W	1	
R6511	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6512	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R6513	ERX3FJS2R2D	M 2.2 OHM, J, 3W	1	
R6514	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6515	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6516	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R6517	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6518	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R6519	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6520	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R6521	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6524	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R6525	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6526	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6527	ERJ14YJ102	M 1KOHM, J,1/4W	1	
R6528	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6529-36	ERJ6GEYJ470	M 47 OHM,J,1/10W	8	
R6538	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6539	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R6540	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6541	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6542	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6544-46	ERJ6GEYJ100	M 10 OHM,J,1/10W	3	
R6548	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6550	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6551	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6552,53	ERJ6ENF1003	M 100KOHM, 1/10W	2	
R6554	ERG1FJS101D	M 100 OHM, J, 1W	1	
R6555	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6556	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R6558	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6559	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6560,61	ERJ6GEYJ470	M 47 OHM,J,1/10W	2	
R6562	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6563	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	1	
R6565	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6566	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R6567,68	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R6570	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6571-78	ERJ6GEYJ471	M 470 OHM,J,1/10W	8	
R6580	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6581	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R6582,83	ERJ6ENF3902	M 39KOHM, 1/10W	2	
R6584	ERJ6ENF7501	M 7.5KOHM, 1/10W	1	
R6585	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6586	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6587	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R6588,89	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6590	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6591	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R6592,93	ERJ6GEYJ105	M 1MOHM,J,1/10W	2	
R6594	ERJ14YJ104	M 100KOHM, J,1/4W	1	
R6595	ERJ6ENF1432	M14.3KOHM, 1/10W	1	
R6596	ERJ6ENF5231	M5.23KOHM, 1/10W	1	
R6598	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6599,00	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6604	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6605-07	ERJ6GEYJ224	M 220KOHM,J,1/10W	3	
R6608,09	ERJ12YJ1R0	M 1 OHM, J,1/2W	2	
R6610	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6611-14	ERJ14YJ150U	M 15 OHM, J,1/4W	4	
R6615	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R6616	ERDS1FJ221	C 220 OHM, J,1/2W	1	
R6617,18	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R6619,20	ERJ14YJ150U	M 15 OHM, J,1/4W	2	
R6621	ERJ6ENF1543	M 154KOHM, 1/10W	1	
R6622,23	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6624	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6625	**ERJ6GEYJ103**	**M 10KOHM,J,1/10W**	**1**	
R6626	**ERJ6GEYJ100**	**M 10 OHM,J,1/10W**	**1**	
R6627,28	**TAJAAH0101JV**	**M 100 OHM,J,1/16W**	**2**	
R6629	**ERJ6ENF2202**	**M 2.2KOHM, 1/10W**	**1**	
R6630	**ERJ14YJ204**	**M 200KOHM, J,1/4W**	**1**	
R6635-38	**ERJ14YJ150U**	**M 15 OHM, J,1/4W**	**4**	
R6641,42	**ERJ14YJ5R6U**	**M 6.2OHM, 1/4W**	**2**	
R6643,44	**ERJ14YJ150U**	**M 15 OHM, J,1/4W**	**2**	
R6645,46	**ERJ6GEYJ151**	**M 150 OHM,J,1/10W**	**2**	
R6647,48	**ERJ14YJ5R6U**	**M 6.2OHM, 1/4W**	**2**	
R6649	**EXB38V680J**	**RESISTOR ARRAY**	**1**	
R6653	**EXB38V680J**	**RESISTOR ARRAY**	**1**	
R6655	**ERJ6GEYJ101**	**M 100 OHM,J,1/10W**	**1**	
R6656	**ERJ6GEYJ104**	**M 100KOHM,J,1/10W**	**1**	
R6659,60	**TAJAAH0101JV**	**M 100 OHM,J,1/16W**	**2**	
R6661,62	**ERJ6GEYJ151**	**M 150 OHM,J,1/10W**	**2**	
R6663	**EXB38V472J**	**RESISTOR ARRAY**	**1**	
R6664	**EXB38V470J**	**RESISTOR ARRAY**	**1**	
R6667,68	**ERJ6GEYJ151**	**M 150 OHM,J,1/10W**	**2**	
R6669	**EXB38V472J**	**RESISTOR ARRAY**	**1**	
R6670	**EXB38V470J**	**RESISTOR ARRAY**	**1**	
R6675	**EXB38V472J**	**RESISTOR ARRAY**	**1**	
R6676	**EXB38V470J**	**RESISTOR ARRAY**	**1**	
R6683	**EXB38V470J**	**RESISTOR ARRAY**	**1**	
R6686	**EXB38V472J**	**RESISTOR ARRAY**	**1**	
R6696	**ERJ6GEYJ103**	**M 10KOHM,J,1/10W**	**1**	
R6699	**ERJ6GEYJ103**	**M 10KOHM,J,1/10W**	**1**	
R6901	**ERJ6GEYJ101**	**M 100 OHM,J,1/10W**	**1**	
R6902-04	**ERJ6GEYJ221**	**M 220 OHM,J,1/10W**	**3**	
R6910,11	**ERJ6GEYJ104**	**M 100KOHM,J,1/10W**	**2**	
R6912	**ERJ6GEYJ472**	**M 4.7KOHM,J,1/10W**	**1**	
R6913	**ERJ6GEYJ224**	**M 220KOHM,J,1/10W**	**1**	
R6920-23	**ERJ6GEYJ103**	**M 10KOHM,J,1/10W**	**4**	
R6924	**ERJ6GEYJ224**	**M 220KOHM,J,1/10W**	**1**	
R6955	**ERJ6GEYJ101**	**M 100 OHM,J,1/10W**	**1**	
R6956-58	**ERJ6GEYJ221**	**M 220 OHM,J,1/10W**	**3**	
R6959	**ERJ6GEYJ224**	**M 220KOHM,J,1/10W**	**1**	
R6975-78	**ERJ6GEYJ103**	**M 10KOHM,J,1/10W**	**4**	
R6979	**ERJ6GEYJ224**	**M 220KOHM,J,1/10W**	**1**	
R7102	**ERJ14YJ220**	**M 22 OHM, J,1/4W**	**1**	
R7105	**ERJ6GEYJ103**	**M 10KOHM,J,1/10W**	**1**	
R7106,07	**ERJ14YJ220**	**M 22 OHM, J,1/4W**	**2**	
R7108	**TAJAAH0470JV**	**M 47 OHM,J,1/16W**	**1**	
R7109	**ERJ6GEY0R00**	**M 0 OHM, 1/10W**	**1**	
R7110,11	**ERJ14YJ220**	**M 22 OHM, J,1/4W**	**2**	
R7117	**ERJ6GEYJ224**	**M 220KOHM,J,1/10W**	**1**	
R7119,20	**J0JCC0000100**	**CHIP INDUCTOR**	**2**	
R7121	**ERJ14YJ220**	**M 22 OHM, J,1/4W**	**1**	
R7125	**ERJ6GEYJ102**	**M 1KOHM,J,1/10W**	**1**	
R7126-28	**TAJAAH0470JV**	**M 47 OHM,J,1/16W**	**3**	
R7130	**J0JCC0000100**	**CHIP INDUCTOR**	**1**	
R7132-35	**J0JCC0000100**	**CHIP INDUCTOR**	**4**	
R7136-41	**ERJ14YJ220**	**M 22 OHM, J,1/4W**	**6**	
R7142,43	**EXB38V470J**	**RESISTOR ARRAY**	**2**	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7148	EXB38V470J	RESISTOR ARRAY	1	
R7154	EXB38V470J	RESISTOR ARRAY	1	
R7161	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7162,63	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R7166,67	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R7170,71	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R7172-74	ERJ8GEY0R00	M 0 OHM, 1/8W	3	
R7175-77	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R7187	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7188	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7192	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7194	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7196	EXB38V470J	RESISTOR ARRAY	1	
R7202,03	ERJ14YJ220	M 22 OHM, J,1/4W	2	
R7204,05	ERJ8GEY0R00	M 0 OHM, 1/8W	2	
R7206,07	ERJ14YJ220	M 22 OHM, J,1/4W	2	
R7208,09	ERJ8GEY0R00	M 0 OHM, 1/8W	2	
R7210,11	ERJ14YJ220	M 22 OHM, J,1/4W	2	
R7212	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7213	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7214,15	ERJ14YJ220	M 22 OHM, J,1/4W	2	
R7217	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R7218-21	J0JCC0000100	CHIP INDUCTOR	4	
R7222	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R7223	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7225	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7226-29	TAJAAH0470JV	M 47 OHM,J,1/16W	4	
R7230	J0JCC0000100	CHIP INDUCTOR	1	
R7232	J0JCC0000100	CHIP INDUCTOR	1	
R7233-40	ERJ14YJ220	M 22 OHM, J,1/4W	8	
R7241,42	EXB38V470J	RESISTOR ARRAY	2	
R7243-45	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R7247	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7248	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7249,50	EXB38V470J	RESISTOR ARRAY	2	
R7251-53	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R7254,55	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R7257,58	EXB38V470J	RESISTOR ARRAY	2	
R7259	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7261,62	J0JCC0000100	CHIP INDUCTOR	2	
R7283	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7289,90	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R7293	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7296	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R7297	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9002	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9004-06	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9007	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9009	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9010	EXB2HV272JV	RESISTOR ARRAY	1	
R9012	EXB2HV272JV	RESISTOR ARRAY	1	
R9013	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9015-18	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R9019	J0JCC0000100	CHIP INDUCTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9020,21	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R9022	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R9023	ERJ6ENF1601	M 1.6KOHM, 1/10W	1	
R9024	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9026	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9028	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9029,30	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9031,32	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R9033,34	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9035,36	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R9039	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9040	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9041	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9042	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9043,44	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R9045	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9046	ERJ3GEYJ123	M 12KOHM,J,1/16W	1	
R9047-50	TAJAAH0101JV	M 100 OHM,J,1/16W	4	
R9052	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9053	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9054,55	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R9056,57	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9058,59	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R9060-67	TAJAAH0101JV	M 100 OHM,J,1/16W	8	
R9068-72	ERJ3GEYJ103	M 10KOHM,J,1/16W	5	
R9073	EXB2HV470JV	RESISTOR ARRAY	1	
R9074	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9075	EXB2HV470JV	RESISTOR ARRAY	1	
R9076	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9077-79	J0JCC0000100	CHIP INDUCTOR	3	
R9080	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9081	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9082-89	TAJAAH0101JV	M 100 OHM,J,1/16W	8	
R9090	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9091,92	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9093	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9094	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9095-98	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R9102-04	TAJAAH0101JV	M 100 OHM,J,1/16W	3	
R9105	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9107-09	ERJ3GEYJ393	M 39KOHM,J,1/16W	3	
R9110	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9111,12	J0JCC0000100	CHIP INDUCTOR	2	
R9113	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9114-16	J0JCC0000100	CHIP INDUCTOR	3	
R9117,18	EXB38VR000	RESISTOR ARRAY	2	
R9119	J0JCC0000100	CHIP INDUCTOR	1	
R9120,21	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R9122-24	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9125,26	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R9127,28	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9130	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9131-33	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	3	
R9134-36	TAJAAH0101JV	M 100 OHM,J,1/16W	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9137	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9140-42	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9145-47	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9160,61	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9162,63	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R9164,65	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R9200-02	TAJAAH0470JV	M 47 OHM,J,1/16W	3	
R9204	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9205	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9208	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9210	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9212	J0JCC0000100	CHIP INDUCTOR	1	
R9300-04	D1HG33080001	NETWORK RESISTER	5	
R9305	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9306,07	D1HG33080001	NETWORK RESISTER	2	
R9308	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9309	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9313-16	J0JCC0000100	CHIP INDUCTOR	4	
R9318,19	J0JCC0000100	CHIP INDUCTOR	2	
R9321	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9322	J0JCC0000100	CHIP INDUCTOR	1	
R9323	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9324-28	J0JCC0000100	CHIP INDUCTOR	5	
R9329	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9330-33	J0JCC0000100	CHIP INDUCTOR	4	
R9335,36	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R9337	ERJ6ENF1101	M 1.1KOHM, 1/10W	1	
R9338	ERJ6ENF1401	M 1.4KOHM, 1/10W	1	
R9339-42	ERJ6ENF1001	M 1KOHM, 1/10W	4	
R9500-03	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R9505-10	TAJAAH0101JV	M 100 OHM,J,1/16W	6	
R9511	EXB2HV272JV	RESISTOR ARRAY	1	
R9512	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9513	EXB2HV272JV	RESISTOR ARRAY	1	
R9515	EXB2HV272JV	RESISTOR ARRAY	1	
R9516,17	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9518	EXB2HV470JV	RESISTOR ARRAY	1	
R9519-21	EXB38V470J	RESISTOR ARRAY	3	
R9522,23	EXB2HV470JV	RESISTOR ARRAY	2	
R9524-26	TAJAAH0470JV	M 47 OHM,J,1/16W	3	
R9527	EXB38V470J	RESISTOR ARRAY	1	
R9528,29	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R9531	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9533,34	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9536	TAJAAH0680JV	M 68 OHM,J,1/16W	1	
R9537,38	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9540	ERJ3GEYJ304V	M 300KOHM,J,1/16W	1	
R9544	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9547	J0JCC0000100	CHIP INDUCTOR	1	
R9700	J0JCC0000100	CHIP INDUCTOR	1	
R9702-04	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9706,07	ERJ6ENF1001	M 1KOHM, 1/10W	2	
R9708	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9709	TAJAAH0101JV	M 100 OHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9714	J0JCC0000100	CHIP INDUCTOR	1	
R9716,17	ERJL14KJ33M	M 33 OHM, J,1/4W	2	
R9718	ERJ6ENF2002	M 20KOHM, 1/10W	1	
R9719	ERJ6ENF1742	M17.4KOHM, 1/10W	1	
R9720	ERJ6ENF6342	M6.34KOHM, 1/10W	1	
R9721	ERJ6ENF2002	M 20KOHM, 1/10W	1	
R9722,23	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9724	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9725	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9726,27	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9728,29	ERJ6ENF2002	M 20KOHM, 1/10W	2	
R9738,39	J0JCC0000100	CHIP INDUCTOR	2	
R9740-42	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R9824	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9830	EXB2HV470JV	RESISTOR ARRAY	1	
R9900	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9901	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9902	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9903	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9904	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9905	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9906	EXB2HV470JV	RESISTOR ARRAY	1	
R9907	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9908,09	EXB38V470J	RESISTOR ARRAY	2	
R9910,11	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9912	EXB2HV470JV	RESISTOR ARRAY	1	
R9913	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9914	EXB38V470J	RESISTOR ARRAY	1	
R9915,16	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9917-19	EXB2HV470JV	RESISTOR ARRAY	3	
R9922	EXB2HV470JV	RESISTOR ARRAY	1	
R9923	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
RM2510	PNA4601M05TV	REMOCO RECEIVER	1	
RTL	TZTNP010YFS	CIRCUIT BOARD D	1	
RTL	TNPA3598AD	CIRCUIT BOARD H	1	PAVCA
RTL	TNPA3620AD	CIRCUIT BOARD PA	1	PAVCA
RTL	TNPA3621AB	CIRCUIT BOARD Z	1	
RTL	TNPA3625AK	CIRCUIT BOARD DG	1	PAVCA
RTL	TNPA3626	CIRCUIT BOARD DV	1	
RTL	TNPA3643	CIRCUIT BOARD PB	1	
RTL	TNPA3545	CIRCUIT BOARD C1	1	
RTL	TNPA3546	CIRCUIT BOARD C2	1	
RTL	TNPA3570	CIRCUIT BOARD P	1	
RTL	TNPA3543	CIRCUIT BOARD SC	1	
RTL	TNPA3243AB	CIRCUIT BOARD SD	1	PAVCA
RTL	TNPA3544	CIRCUIT BOARD SS	1	
RTL	TNPA3242AB	CIRCUIT BOARD SU	1	PAVCA
RTL	TNPA3603	CIRCUIT BOARD K	1	
RTL	TNPA3604	CIRCUIT BOARD S	1	
S1	K1KA03AA0193	3P CONNECTOR	1	
S2	K1KA02AA0193	2P CONNECTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
SC2	K1KA06AA0192	6P CONNECTOR	1	
SC20	K1KA20AA0008	20P CONNECTOR	1	
SC23	K1KA03AA0193	3P CONNECTOR	1	
SC30	K1KA03AA0193	3P CONNECTOR	1	
SC41,42	K1ML80BA0001	80P CONNECTOR	2	
SC45,46	K1KA10A00431	10P CONNECTOR	2	
SD1-D3	K1MN80B00004	80P CONNECTOR	3	
SD46	K1KA10B00209	10P CONNECTOR	1	
SS11	K1KA07AA0192	7P CONNECTOR	1	
SS12	K1KA05AA0192	5P CONNECTOR	1	
SS23	K1KA12AA0194	12P CONNECTOR	1	
SS34	K1KA03AA0193	3P CONNECTOR	1	
SS41-44	K1MN13B00020	13P CONNECTOR	4	
SU1-U3	K1MN80B00004	80P CONNECTOR	3	
SU45	K1KA10B00209	10P CONNECTOR	1	
SW2500	K0F122A00172	SWITCREMOTE CONTROLH	1	
SW3751-55	EVQ11G05R	SWITCH	5	
T6461	ETS13TB139AP	SWITCHING TRANS	1	
T6471	ETS19AA259AC	SWITCHING TRANS	1	
VR6074	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
VR6477	EVMEASA00B23	CONTROL 2KOHMB 0.3W	1	
VR6557	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
X4001	TSSA101	CRYSTAL	1	
X4002	H0J400400017	CRYSTAL	1	
X4004	H0J270500087	CRYSTAL	1	
X9000	H2D2705A0004	CRYSTAL	1	
X9200	H0J200500038	CRYSTAL	1	
Z2	K1KA05AA0192	5P CONNECTOR	1	
Z50	K1MN35A00015	35P CONNECTOR	1	PAVCA
ZA5601-04	K9ZZ00000424	CONNECTOR	4	
ZA5801-04	K9ZZ00000424	CONNECTOR	4	
ZA6001-04	K4CD01000013	TERMINAL	4	
ZA6601-03	K4CD01000013	TERMINAL	3	
ZA7101,02	K4CD01000013	TERMINAL	2	
ZA7104	K4CD01000013	TERMINAL	1	
ZA7201	K4CD01000013	TERMINAL	1	
ZA7203,04	K4CD01000013	TERMINAL	2	
ZA9001	K4CD01000013	TERMINAL	1	
ZMM1	TMM25401	CLAMPER	1	
C402	ECJ2XC1H101J	C 100PF, J, 50V	1	
C403	ECKCNA222MEB	C 2200PF, M	1	
C404	F0CAF105A021	C 1UF, 250V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C405	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C407	ECA2WHG220	E 22UF, 450V	1	
C409	F0CAF105A021	C 1UF, 250V	1	
C410	ECJ3YB1E105K	C 1UF, K, 25V	1	
C411-14	ECJ2XB1H103K	C 0.01UF, K, 50V	4	
C415,16	F1A3A102A040	C 1000PF, J, 1KV	2	
C417	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C418	F1J1C1050011	C 1UF, Z, 50V	1	
C419	F1A3A102A040	C 1000PF, J, 1KV	1	
C421,22	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C423	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C424	F1A3A102A040	C 1000PF, J, 1KV	1	
C425	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C426	ECJ2XC1H471J	C 470PF, J, 50V	1	
C427	F1J1C1050011	C 1UF, Z, 50V	1	
C428	ECJ2XC1H221J	C 220PF, J, 50V	1	
C429,30	F1K2J1530002	C 0.15PF, J,630V	2	
C431	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C432-34	F1J1C1050011	C 1UF, Z, 50V	3	
C436	F1J1C1050011	C 1UF, Z, 50V	1	
C440	ECA1HM100	E 10UF, 50V	1	
C443,44	F1A3A102A040	C 1000PF, J, 1KV	2	
C445	F1J1C1050011	C 1UF, Z, 50V	1	
C446	F2B2W3910005	C 390UF, 450V	1	
C451	F1A3A101A040	C 100PF, J, 1KV	1	
C457	ECWH12333RHV	P 0.013UF,J,1.2KV	1	
C459	F1K2J1530002	C 0.15PF, J,630V	1	
C460,61	F1A3A331A039	E 330UF, 1KV	2	
C462	ECJ3YB1E105K	C 1UF, K, 25V	1	
C463	ECJ2XC1H220J	C 22UF, J, 50V	1	
C465	ECKCNA221KB7	C 220PF, M,	1	
C467	ECKCNA221KB7	C 220PF, M,	1	
C468	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C470	F0CAF105A021	C 1UF, 250V	1	
C471	F1J1C1050011	C 1UF, Z, 50V	1	
C473	ECKCNA221KB7	C 220PF, M,	1	
C476	ECKCNA221KB7	C 220PF, M,	1	
C482	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C490	ECJ2XC1H331J	C 330PF, J, 50V	1	
C491	ECJ2XB1E104K	C 0.1UF, K, 25V	1	
C492	ECJ2XC1H271J	C 270PF, J, 50V	1	
C493	ECA1EM101	E 100UF, 25V	1	
C494,95	ECJ2XC1H101J	C 100PF, J, 50V	2	
C496	F1J1C1050011	C 1UF, Z, 50V	1	
C497	ECA1EM221	E 220UF, 25V	1	
C498	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C501-03	ECJ2XB1H103K	C 0.01UF, K, 50V	3	
C504	F1J1C1050011	C 1UF, Z, 50V	1	
C505	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C506-08	ECJ2XB1H103K	C 0.01UF, K, 50V	3	
C509	ECA1EM101	E 100UF, 25V	1	
C510	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C511	ECA1EM331	E 330UF, 25V	1	
C512-14	ECJ2XC1H471J	C 470PF, J, 50V	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C515	ECA1CM222	E 2200UF, 16V	1	
C516	ECJ2XB1C474K	C 0.47UF, Z, 16V	1	
C517	F2D1E1010001	E 10UF, 25V	1	
C518,19	F1J1C1050011	C 1UF, Z, 50V	2	
C523	ECJ3YB1E105K	C 1UF, K, 25V	1	
C525	F2A1E8210012	E 820UF, 25V	1	
C526	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C527	ECJ3YB1E475K	C 4.7UF, K, 25V	1	
C528,29	F1J1C1050011	C 1UF, Z, 50V	2	
C530	ECJ2VB1H333K	C 0.033UF, K, 50V	1	
C533	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C534	ECJ2XC1H471J	C 470PF, J, 50V	1	
C546,47	ECJ2VB1H333K	C 0.033UF, K, 50V	2	
C548	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C551-53	ECJ2XB1H104K	C 0.1UF, K, 50V	3	
C554	F1J1C1050011	C 1UF, Z, 50V	1	
C555	ECA2AM101	E 100UF, 100V	1	
C556	F2A1C1520009	E 1500UF, 16V	1	
C557	F2A1E1520089	E 1500UF, 25V	1	
C562	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C572	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C574	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C577	ECA2AM330	E 33UF, 100V	1	
C581	ECJ2XB1H223K	C 0.022UF, K, 50V	1	
C583	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C584	ECJ2XB1H223K	C 0.022UF, K, 50V	1	
C587	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C591,92	F1K2J1530002	C 0.15PF, J,630V	2	
C601	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C603	ECA1HM470	E 47UF, 50V	1	
C604,05	F2A2C1510004	E 150UF, 160V	2	
C606,07	F1J1C1050011	C 1UF, Z, 50V	2	
C608,09	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C610	F1J1C1050011	C 1UF, Z, 50V	1	
C611	F2B2D1720001	E 1700UF,@ 200V	1	
C612	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C615	F2B2D1720001	E 1700UF,@ 200V	1	
C616	F1A3A102A040	C 1000PF, J, 1KV	1	
C619	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C620	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C623	ECA1HM100	E 10UF, 50V	1	
C624	ECJ3YB1E105K	C 1UF, K, 25V	1	
C626	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C629	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C631	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C633	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C634	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C635	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C636	F1J1C1050011	C 1UF, Z, 50V	1	
C637	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C638,39	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C640	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C641	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C643	ECA1HM470	E 47UF, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C646,47	ECJ2XC1H331J	C 330PF, J, 50V	2	
D401	B0FBAT000006	DIODE	1	
D402	MA4240MTA	ZENER DIODE	1	
D403	MA4051NM	ZENER DIODE	1	
D404	B0EBKT000007	DIODE	1	
D406	MA4200M	ZENER DIODE	1	
D407	MA188	DIODE	1	
D410	MA111	DIODE	1	
D411	B0BB17000010	ZENER DIODE	1	
D412-14	MA111	DIODE	3	
D415	B0JAME000081	DIODE	1	
D417	RU30A	DIODE	1	
D418	MA4082M	ZENER DIODE	1	
D419,20	RU30A	DIODE	2	
D423	MA188	DIODE	1	
D425	MA188	DIODE	1	
D427-29	ERA15-10	DIODE	3	
D431	B0JCDD000002	DIODE	1	
D433	MA4150M	ZENER DIODE	1	
D434	MA4082M	ZENER DIODE	1	
D435	ERA15-10	DIODE	1	
D436	MA188	DIODE	1	
D437	MA4082M	ZENER DIODE	1	
D438	MA4150M	ZENER DIODE	1	
D439	MA4130HTA	ZENER DIODE	1	
D440	MA4300M	ZENER DIODE	1	
D441	B0HAMM000122	DIODE	1	
D442	MA4075M	ZENER DIODE	1	
D443	MA4240MTA	ZENER DIODE	1	
D444	B0HAMM000122	DIODE	1	
D445	MA165	DIODE	1	
D459	MA188	DIODE	1	
D461	MA4082M	ZENER DIODE	1	
D462	MA142WKTX	DIODE	1	
D463-67	ERA15-10	DIODE	5	
D501	B0HANR000016	DIODE	1	
D503,04	MA165	DIODE	2	
D505	B0JAME000081	DIODE	1	
D506	MA4051NM	ZENER DIODE	1	
D507,08	MA4150M	ZENER DIODE	2	
D509,10	B0HANM000028	DIODE	2	
D511	B0HBSM000043	DIODE	1	
D514	MA4062M	ZENER DIODE	1	
D521	B0HAMP000067	DIODE	1	
D528,29	MA153	DIODE	2	
D530	MA4100M	ZENER DIODE	1	
D531,32	B0HAPR000012	DIODE	2	
D534	B0JBSG000026	DIODE	1	
D535	MA188	DIODE	1	
D536	B0JBSL000013	DIODE	1	
D538	MA3051M	ZENER DIODE	1	
D539	B0HBRP000007	DIODE	1	
D542	MA4180HTA	ZENER DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D543	MA4150M	ZENER DIODE	1	
D544,45	MA4180HTA	ZENER DIODE	2	
D549	MA4075M	ZENER DIODE	1	
D551	MA4130M	ZENER DIODE	1	
D552	MA4082M	ZENER DIODE	1	
D555	MA4075M	ZENER DIODE	1	
D559	MA4075M	ZENER DIODE	1	
D563	MA4062M	ZENER DIODE	1	
D564	MAZ72000AF	ZENER DIODE	1	
D565	MA4160M	ZENER DIODE	1	
D566	B0HAMM000122	DIODE	1	
D568	MA3J142D0L	DIODE	1	
D569-71	MA4300M	ZENER DIODE	3	
D572	MA188	DIODE	1	
D574	MA111	DIODE	1	
D575	MA188	DIODE	1	
D579	MA111	DIODE	1	
D582	MAZ705600F	ZENER DIODE	1	
D584	MA4075M	ZENER DIODE	1	
D586	B0HAMP000067	DIODE	1	
D587	MA188	DIODE	1	
IC401	CNC1S171R	IC	1	
IC402	C0BBAA000038	IC	1	
IC403,04	CNC1S171R	IC	2	
IC406	C0DAZZZ00021	IC	1	
IC407	C0DBAZZ00111	IC	1	
IC408,09	CNC1S171R	IC	2	
IC411	C0BBAA000038	IC	1	
IC412	CNC1S171R	IC	1	
IC501	C2ABDD000064	IC	1	
IC502	C0EBH0000190	IC	1	
IC503,04	C0DAEMB00004	IC	2	
IC505	CNC1S171R	IC	1	
IC506	C0ZBZ0000878	IC	1	
IC507	C0CBABE00023	IC	1	
IC509	C0DABZZ00010	IC	1	
IC512	C0DAEMB00004	IC	1	
IC520	C9ZB00000496	IC	1	
L402	EXCELSA24	BEAD CHOKE	1	
L403	EXCELSA35	BEAD CHOKE	1	
L404,05	G0B123K00003	INDUCTION COIL	2	
L501	EXCELSA35	BEAD CHOKE	1	
L502	TALL08N102JA	INDUCTION COIL	1	
L506	EXCELDR25C	BEAD CHOKE	1	
L509	J0JBC0000032	CHIP INDUCTOR	1	
L510	EXCELDR25C	BEAD CHOKE	1	
P2	K1KA06AA0479	6P CONNECTOR	1	
P5	K1KA11AA0183	11P CONNECTOR	1	
P9	K1KA03A00537	3P CONNECTOR	1	
P10	K1KA06AA0182	6P CONNECTOR	1	
P11	K1KA07AA0192	7P CONNECTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
P12	K1KA05AA0192	5P CONNECTOR	1	
P23	K1KA03AA0182	3P CONNECTOR	1	
P25	K1KA20AA0178	20P CONNECTOR	1	
P30	K1KA05AA0182	5P CONNECTOR	1	
PR401	K5Y502BA0001	FUSE	1	
PR402	K5G202B00015	FUSE	1	
PR501	K5H502Z00003	FUSE	1	
PR503	K5H502Z00003	FUSE	1	
PR509	K5H501Z00005	FUSE	1	
PR601	K5G312B00012	FUSE	1	
Q401	B1CHND000004	TRANSISTOR	1	
Q403	B1CBGD000001	TRANSISTOR	1	
Q404	B1BCCF000022	TRANSISTOR	1	
Q406	B1DEHQ000007	TRANSISTOR	1	
Q407	XN4601	TRANSISTOR	1	
Q408,09	B1CHND000004	TRANSISTOR	2	
Q412,13	B1DAGQ000013	TRANSISTOR	2	
Q414	B1ABCF000134	TRANSISTOR	1	
Q415	2SB1218ARL	TRANSISTOR	1	
Q417	B1CHND000004	TRANSISTOR	1	
Q418	2SD1819A	TRANSISTOR	1	
Q420-22	2SD1819A	TRANSISTOR	3	
Q423,24	B1CBGD000001	TRANSISTOR	2	
Q430	B1CEJQ000002	TRANSISTOR	1	
Q431	B1DEGS000001	TRANSISTOR	1	
Q432	B1CEJQ000002	TRANSISTOR	1	
Q433	B1CBGD000001	TRANSISTOR	1	
Q434	B1CEJQ000002	TRANSISTOR	1	
Q435	B1CBGD000001	TRANSISTOR	1	
Q436	B1CEJQ000002	TRANSISTOR	1	
Q438	B1CBGD000001	TRANSISTOR	1	
Q439	B1CHND000004	TRANSISTOR	1	
Q440,41	2SD1819A	TRANSISTOR	2	
Q501,02	2SD1820A	TRANSISTOR	2	
Q503	XN0440100L	TRANSISTOR	1	
Q505	B1CEJQ000002	TRANSISTOR	1	
Q506	B1CHND000004	TRANSISTOR	1	
Q507	B1DAGQ000013	TRANSISTOR	1	
Q508	XN0450100L	TRANSISTOR	1	
Q509	XN0440100L	TRANSISTOR	1	
Q510	B1DHBD000004	TRANSISTOR	1	
Q511	B1CFND000005	TRANSISTOR	1	
Q512	B1CBGD000001	TRANSISTOR	1	
Q516	B1DHBD000004	TRANSISTOR	1	
Q517	B1HFCFA00021	TRANSISTOR	1	
Q518	B1DEHL000018	TRANSISTOR	1	
Q519	B1DEHF000002	TRANSISTOR	1	
Q520	B1HFCFA00021	TRANSISTOR	1	
Q525	B1CBGD000001	TRANSISTOR	1	
Q527	B1DEHL000018	TRANSISTOR	1	
Q530	B1CBGD000001	TRANSISTOR	1	
Q535	2SD1819A	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q536-38	B1CFQD000001	TRANSISTOR	3	
Q541	B1CBGD000001	TRANSISTOR	1	
Q544	XN0440100L	TRANSISTOR	1	
Q550	B1CHGD000006	TRANSISTOR	1	
Q551,52	B1CBGD000001	TRANSISTOR	2	
Q553	2SD1819A	TRANSISTOR	1	
Q554	B1DHBD000004	TRANSISTOR	1	
Q557	2SD1819A	TRANSISTOR	1	
Q558	B1CHHG000002	TRANSISTOR	1	
Q559	2SD1819A	TRANSISTOR	1	
Q560	B1CHHG000002	TRANSISTOR	1	
Q561,62	2SD1819A	TRANSISTOR	2	
Q564,65	2SD1819A	TRANSISTOR	2	
Q567	B1CBGD000001	TRANSISTOR	1	
R401	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R402	ERJ6EKF6803	M 680KOHM, 1/10W	1	
R403	ERJ6ENF4702	M 47KOHM, 1/10W	1	
R404	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R405	ERJ6EKF6803	M 680KOHM, 1/10W	1	
R407	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R408	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R410,11	D1F5100E0002	F 3.3 OHM, 5W	2	
R412	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R413	D1F5100E0002	F 3.3 OHM, 5W	1	
R414	ERJ8GEYJ153	M 15KOHM, J,1/8W	1	
R415	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R416	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R417	ERJ6ENF4303	M 430KOHM, 1/10W	1	
R418	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R419	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R420	ERJ6GEYJ474	M 470KOHM,J,1/10W	1	
R421	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R422	ERJ8GEYJ181	M 180 OHM, J,1/8W	1	
R423	ERJ6GEYJ154	M 150KOHM,J,1/10W	1	
R424	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R425	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R426	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R427	ERJ6GEYJ334	M 330KOHM,J,1/10W	1	
R428	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R429	ERJ8GEYJ103	M 10KOHM, J,1/8W	1	
R430	ERJ6ENF4303	M 430KOHM, 1/10W	1	
R431	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R432	ERJ8GEYJ103	M 10KOHM, J,1/8W	1	
R433	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R435	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R436	ERJ8GEYJ153	M 15KOHM, J,1/8W	1	
R437	ERJ6GEYJ183	M 18KOHM,J,1/10W	1	
R438	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R439	ERG12SJ120	M 12 OHM, J,1/2W	1	
R440	ERJ8GEYJ474	M 470KOHM, J,1/8W	1	
R441,42	ERJ6EKF6803	M 680KOHM, 1/10W	2	
R443	EVMAASA00B23	CONTROL 2KOHMB	1	
R444	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R445	ERJ6ENF1003	M 100KOHM, 1/10W	1	
R446	ERX2SJR39H	M0.39 OHM, J, 2W	1	
R447	ERJ6ENF3302	M 33KOHM, 1/10W	1	
R448,49	D0XGR10JA007	RESISTOR ARRAY	2	
R450	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R451	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R452	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R453	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R454	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R455	ERJ6GEYJ106	M 10MOHM,J,1/10W	1	
R456,57	ERJ6GEYJ333	M 33KOHM,J,1/10W	2	
R458	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R461	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R462	ERJ6ENF4303	M 430KOHM, 1/10W	1	
R463	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R464	ERJ6ENF3302	M 33KOHM, 1/10W	1	
R465	ERJ6ENF5603	M 560KOHM, 1/10W	1	
R466,67	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R468	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R469	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R470	ERX2SJR39H	M0.39 OHM, J, 2W	1	
R471	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R472,73	ERJ6ENF5603	M 560KOHM, 1/10W	2	
R474	ERG1SJ104P	M 100KOHM, J, 1W	1	
R475	ERJ6EKF6803	M 680KOHM, 1/10W	1	
R476,77	ERJ14YJ181U	M 181 OHM, J,1/4W	2	
R478	ERJ8GEYJ220	M 22 OHM, J,1/8W	1	
R479	ERG1SJ104P	M 100KOHM, J, 1W	1	
R480	ERJ6ENF9102	M91.0KOHM, 1/10W	1	
R481	ERJ6GEYJ106	M 10MOHM,J,1/10W	1	
R482	ERJ8GEYJ220	M 22 OHM, J,1/8W	1	
R483	ERJ6GEYJ106	M 10MOHM,J,1/10W	1	
R485	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R486,87	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	2	
R488	ERJ6GEYJ106	M 10MOHM,J,1/10W	1	
R489	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R490,91	ERJ6GEYJ473	M 47KOHM,J,1/10W	2	
R492	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R493	ERG12SJ120	M 12 OHM, J,1/2W	1	
R494-96	ERJ6ENF5603	M 560KOHM, 1/10W	3	
R497	ERJ6ENF2402	M 24KOHM, 1/10W	1	
R501	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R502,03	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R504	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R505	ERJ8GEYJ330	M 33 OHM, J,1/8W	1	
R506	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R507	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R508	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R509-11	ERJ6GEYJ104	M 100KOHM,J,1/10W	3	
R512	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R513,14	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R515,16	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R517	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R518	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R519,20	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R521,22	ERJ8GEYJ100	M 10 OHM, J,1/8W	2	
R523	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R524	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R525	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R526,27	ERJ8GEYJ224	M 220KOHM, J,1/8W	2	
R528	ERJ6GEYJ4R7	M 4.7 OHM,J,1/10W	1	
R530	ERJ6RBD3302	M 33KOHM,F,1/10W	1	
R531	ERJ8GEYJ472	M 4.7KOHM, J,1/8W	1	
R532	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R533	ERJ8GEYJ223	M 22KOHM, J,1/8W	1	
R534	ERJ8GEYJ224	M 220KOHM, J,1/8W	1	
R535,36	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R537	ERJ6ENF3602	M 36KOHM, 1/10W	1	
R538	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R539	ERJ6RBD1002	M 1.0KOHM, 1/10W	1	
R540	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R541	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R542	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R543	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R544	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R545	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R546,47	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R548	ERJ8GEYJ102	M 1KOHM, J,1/8W	1	
R549	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R550	ERJ6GEYJ105	M 1MOHM,J,1/10W	1	
R551	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R552	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R553	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R554	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R555,56	ERJ6GEYJ105	M 1MOHM,J,1/10W	2	
R557	ERJ8GEYJ471	M 470 OHM, J,1/8W	1	
R558	ERJ6GEYJ334	M 330KOHM,J,1/10W	1	
R559	ERJ6RBD4702	M 47KOHM, 1/10W	1	
R560	ERJ6ENF1302	M 13KOHM, 1/10W	1	
R561	ERJ6ENF4301	M 4.3KOHM, 1/10W	1	
R562	ERJ6ENF1802	M 18KOHM, 1/10W	1	
R563	ERJ6GEYJ2R2	M 2.2 OHM,J,1/10W	1	
R564	ERJ6GEYJ474	M 470KOHM,J,1/10W	1	
R565	ERJ6GEYJ334	M 330KOHM,J,1/10W	1	
R566	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R567	ERJ8GEYJ472	M 4.7KOHM, J,1/8W	1	
R568,69	ERG2SJ181	M 180 OHM, J, 2W	2	
R570	ERJ8GEYJ102	M 1KOHM, J,1/8W	1	
R571	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R572,73	ERJ8ENF3900	M 390 OHM, 1/8W	2	
R574	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R575	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R576	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R577,78	ERJ6GEYJ473	M 47KOHM,J,1/10W	2	
R579	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R580,81	ERJ6GEYJ473	M 47KOHM,J,1/10W	2	
R582	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R583	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R584	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R585	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R586,87	ERJ6GEYJ473	M 47KOHM,J,1/10W	2	
R588	ERJ8ENF3900	M 390 OHM, 1/8W	1	
R589,90	ERJ8GEYJ123	M 12KOHM, J,1/8W	2	
R591	ERJ6GEYJ105	M 1MOHM,J,1/10W	1	
R592	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R593	ERJ6ENF5601	M 5.6KOHM, 1/10W	1	
R594	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R595	ERJ8GEYJ222	M 2.2KOHM, J,1/8W	1	
R596	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R597,98	ERJ6GEYJ473	M 47KOHM,J,1/10W	2	
R599,00	ERJ8GEYJ391	M 390 OHM, J,1/8W	2	
R601	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R602	ERJ6ENF3301	M 3.3KOHM, 1/10W	1	
R603	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R604	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R606	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R607	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	1	
R608	ERJ8GEYJ332	M 3.3KOHM, J,1/8W	1	
R609	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	1	
R610,11	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R612	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R613	ERJ6ENF1602	M 16KOHM, 1/10W	1	
R614	ERJ6ENF3301	M 3.3KOHM, 1/10W	1	
R615-17	ERJ6GEYJ103	M 10KOHM,J,1/10W	3	
R618	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R619	ERJ8RQFR68	M 0.68OHM, J,1/8W	1	
R620	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R621	ERJ8GEYJ123	M 12KOHM, J,1/8W	1	
R622	ERJ8ENF1503	M 15KOHM, 1/8W	1	
R623	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R624	ERX2SJR22	M0.22 OHM, J, 2W	1	
R625	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R626	ERJ8ENF1503	M 15KOHM, 1/8W	1	
R627	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	1	
R628	EVMAASA00B33	CONTROL 3KOHMB	1	
R629	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R630	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R631	ERJ8GEYJ333	M 33KOHM, J,1/8W	1	
R632	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R633	ERJ6GEYJ334	M 330KOHM,J,1/10W	1	
R634	ERJ8RQFR68	M 0.68OHM, J,1/8W	1	
R636	ERJ8ENF1503	M 15KOHM, 1/8W	1	
R637	ERJ8RQFR68	M 0.68OHM, J,1/8W	1	
R640	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R641	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R642-44	ERJ8RQFR68	M 0.68OHM, J,1/8W	3	
R645	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R646,47	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R648	ERJ8ENF1503	M 15KOHM, 1/8W	1	
R649	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R650	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R651	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R652	ERJ6ENF9101	M 9.1KOHM, 1/10W	1	
R653	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R654	ERJ8GEYJ101	M 100 OHM, J,1/8W	1	
R655	ERJ8RQJR39	M0.39 OHM, 1/8W	1	
R656	ERJ6ENF4702	M 47KOHM, 1/10W	1	
R657	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R658	ERJ6GEYJ105	M 1MOHM,J,1/10W	1	
R659	ERJ6ENF3002	M 30KOHM, 1/10W	1	
R660	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R661	EVMAASA00B53	CONTROL 5KOHMB	1	
R662	ERJ6ENF1303	M 130KOHM, 1/10W	1	
R663	ERJ3GEYJ2R2	M 2.2 OHM,J,1/16W	1	
R664	ERJ6ENF9101	M 9.1KOHM, 1/10W	1	
R665	EVMAASA00B23	CONTROL 2KOHMB	1	
R666	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R667,68	ERJ8GEY0R00	M 0 OHM, 1/8W	2	
R669	ERJ6ENF1303	M 130KOHM, 1/10W	1	
R670	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R671	EVMAASA00B14	CONTROL 10KOHMB	1	
R674	ERJ8GEYJ333	M 33KOHM, J,1/8W	1	
R675	ERJ3GEYJ2R2	M 2.2 OHM,J,1/16W	1	
R676	ERJ8GEYJ333	M 33KOHM, J,1/8W	1	
R677	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R678	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R679,80	ERJ8RQJR39	M0.39 OHM, 1/8W	2	
R681	ERJ6ENF1500	M 150 OHM, 1/10W	1	
R682	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R683	ERJ6ENF1500	M 150 OHM, 1/10W	1	
R684	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R685	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R686	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R687	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R688	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R689	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R690	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R691	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R692,93	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R694	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R695	ERJ6ENF1602	M 16KOHM, 1/10W	1	
R696	ERJ8GEYJ100	M 10 OHM, J,1/8W	1	
R697	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R698	ERJ8RQJR39	M0.39 OHM, 1/8W	1	
R702	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R703,04	ERG2SJ101	M 100 OHM, J, 2W	2	
R706	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R707	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R708	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R712	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R713	ERJ8GEYJ472	M 4.7KOHM, J,1/8W	1	
R901	ERJ6ENF2702	M 27KOHM, 1/10W	1	
R903-06	ERJ8ENF1203	M 12KOHM, 1/8W	4	
R907	ERJ6ENF2702	M 27KOHM, 1/10W	1	
R908	ERJ6GEYJ335	M 3.3MOHM,J,1/10W	1	
R909-11	ERJ6GEYJ106	M 10MOHM,J,1/10W	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R912	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R913,14	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R915	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R916	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R917	ERJ6GEYJ334	M 330KOHM,J,1/10W	1	
R918	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R920	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R921	ERJ6RBD3092	M30.9KOHM,F,1/10W	1	
R922	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R925	ERJ6GEYJ335	M 3.3MOHM,J,1/10W	1	
R926,27	ERG2DJW224E	M 220KOHM, J, 2W	2	
R928-31	ERJ8ENF1203	M 12KOHM, 1/8W	4	
R932	ERJ6GEYJ105	M 1MOHM,J,1/10W	1	
RL402	TSEH8011	RELAY	1	
RL403	TSE10801	RELAY	1	
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T402	G4D1A0000098	SWITCHING TRANSFORMER	1	
T404	G4D4A0000109	SWITCHING TRANSFORMER	1	
T407	ETQ11K5AZ	CHOKE TRANS	1	
T410	G4D2A0000229	SWITCHING TRANSFORMER	1	
T601	G4D2A0000227	SWITCHING TRANSFORMER	1	
W2	ERDS2TJ391	C 390 OHM, J,1/4W	1	
X501	H2B400400021	CRYSTAL	1	
Z1,Z2	K4ZZ01000206	TERMINAL	2	
Z410	TMM7464-2	CLAMPER	1	
Z411	TMME190	CLAMPER	1	
Z412	TMM7443-3	CLAMPER	1	
Z413	TMM7464-2	CLAMPER	1	
Z414	TMME190	CLAMPER	1	
Z420	TMM23417	CLAMPER	1	
Z450-53	EYF52BCY	FUSE HOLDER	4	
ZN401,02	D4EAD6210001	VARISTOR	2	
ZN403	D4EA8511A001	VARISTOR	1	
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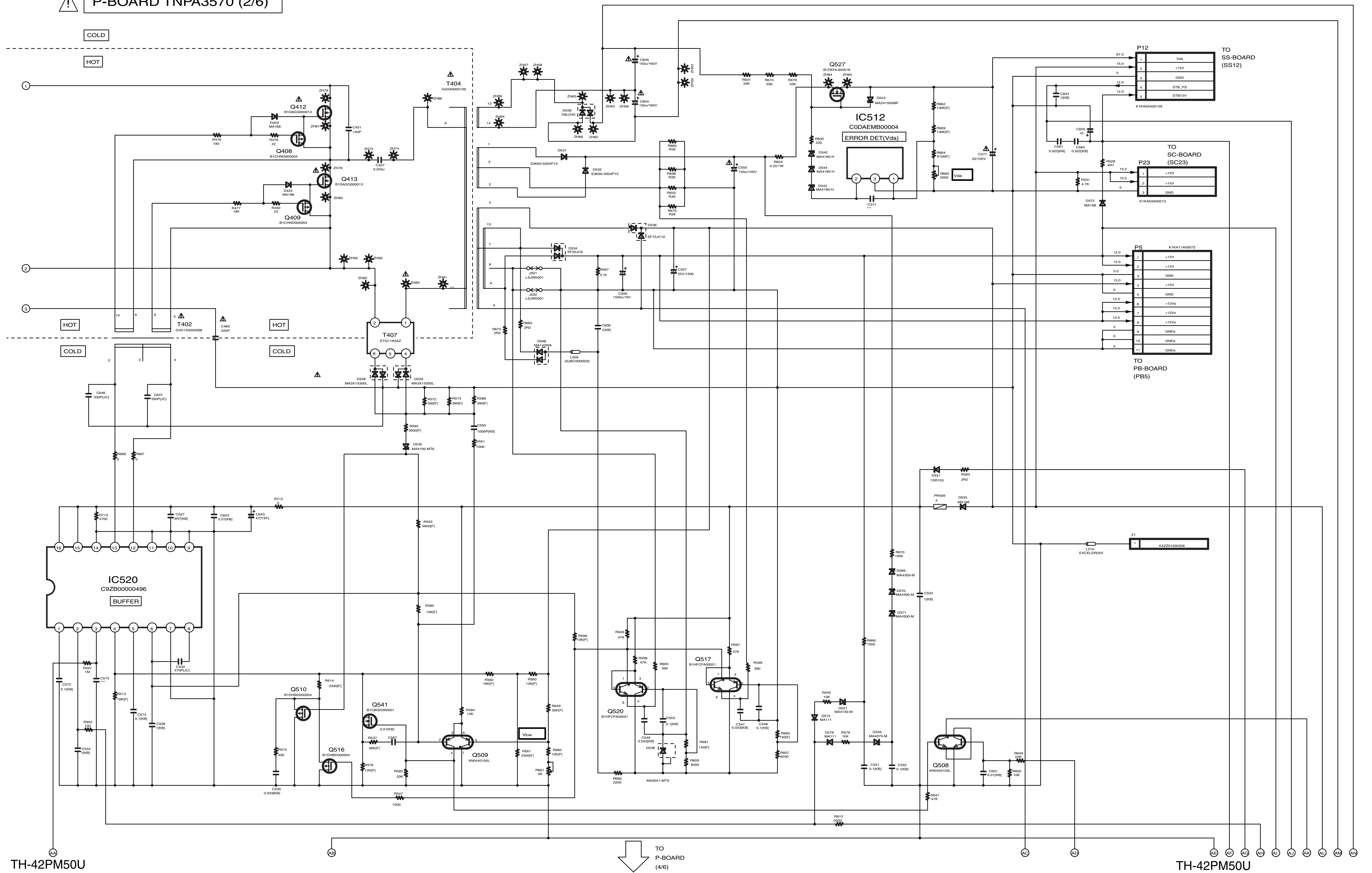
16. Schematic Diagram for printing with A4

P-BOARD TNPA3570 (2/6)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R477
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R478
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R482
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C604
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R39
R698
R39
R655
R39
R679
R39
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AC
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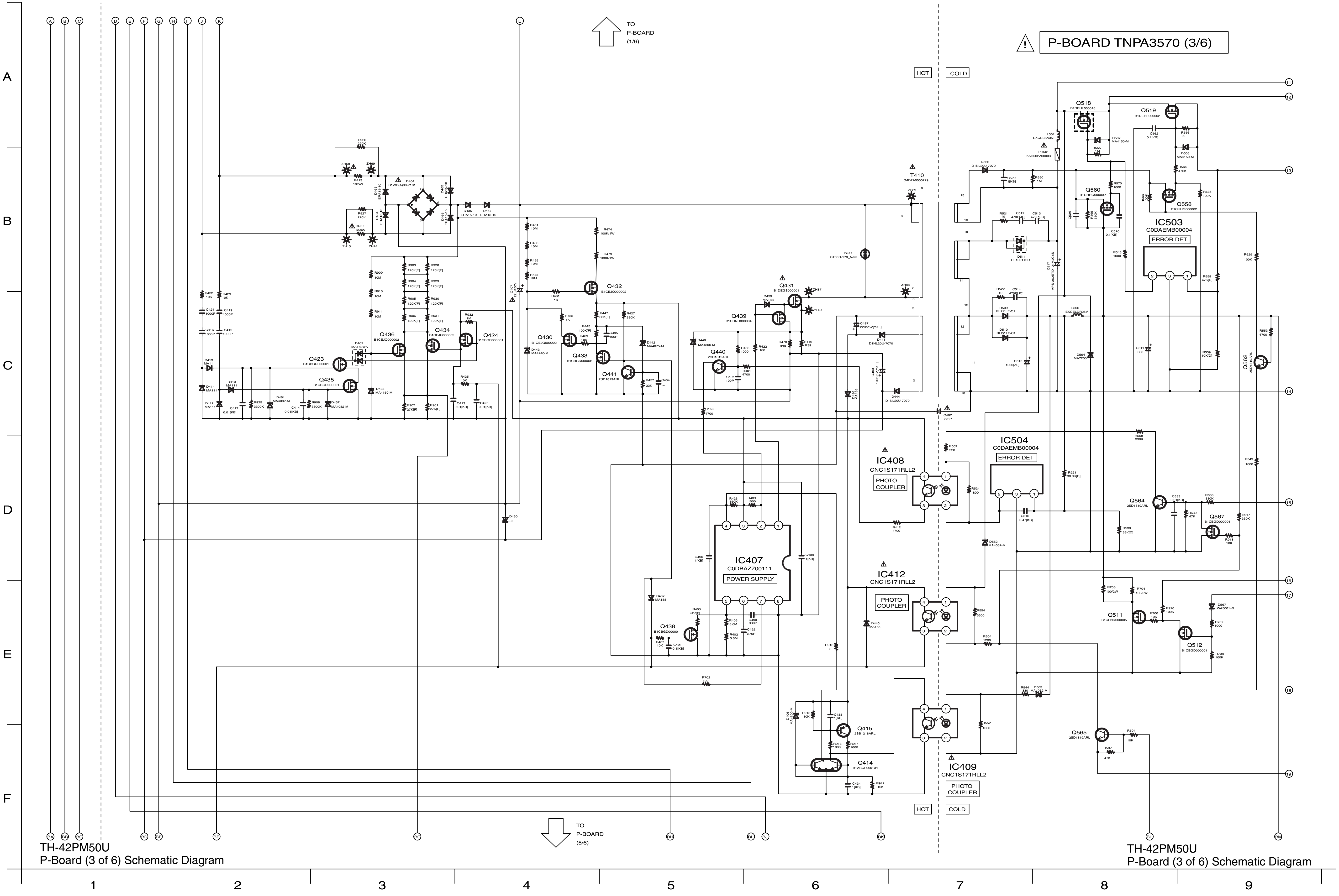
AF
AG
AH
AI
AJ
AK
AL
AM
AN
TO
P-BOARD
(4/6)

TH-42PM50U
P-Board (2 of 6) Schematic Diagram

TH-42PM50U
P-Board (2 of 6) Schematic Diagram

10 11 12 13 14 15 16 17 18

P-BOARD TNPA3570 (3/6)



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10/5W
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ZH69
ZH13
ZH14
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TO
P-BOARD
(5/6)
A
B
C
D
E
F
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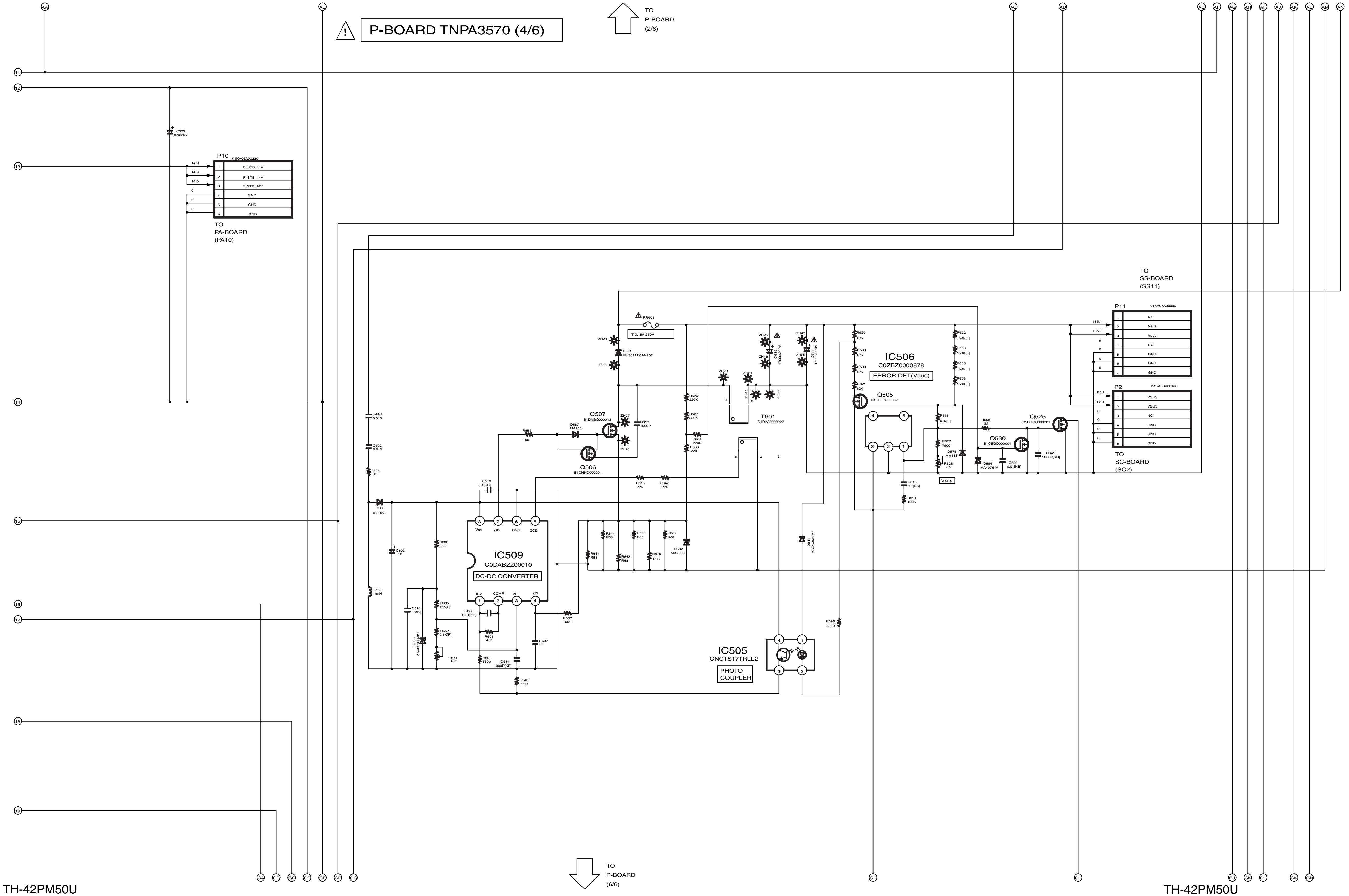
9

TH-42PM50U
P-Board (3 of 6) Schematic Diagram

TH-42PM50U
P-Board (3 of 6) Schematic Diagram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(2/6)
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AL
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AN
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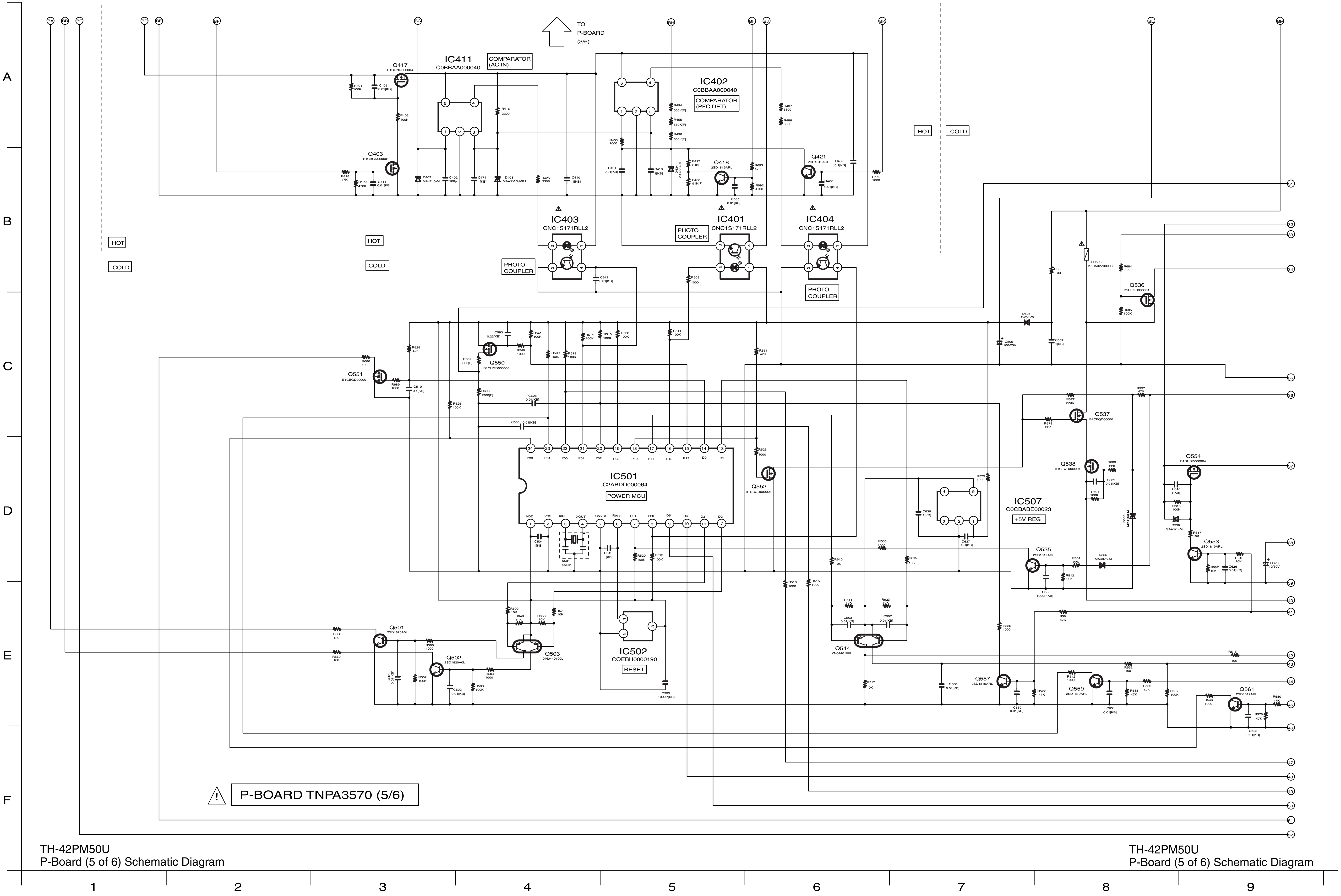
1M
Q530
B1CBGD000001
D584
MA4075-M
C629
0.01[KB]
Q525
B1CBGD000001
C641
1000P[KB]
TO
SS-BOARD
(SS11)
P11
K1KA07A00096
185.1
185.1
0
0
0
0
1 NC
2 Vsus
3 Vsus
4 NC
5 GND
6 GND
7 GND
P2
K1KA06A00180
185.1
185.1
0
0
0
0
1 VSUS
2 VSUS
3 NC
4 GND
5 GND
6 GND
TO
SC-BOARD
(SC2)
TO
P-BOARD
(6/6)
CA
CB
CC
CD
CE
CF
CG
CH
CI
CJ
CK
CL
CM
CN

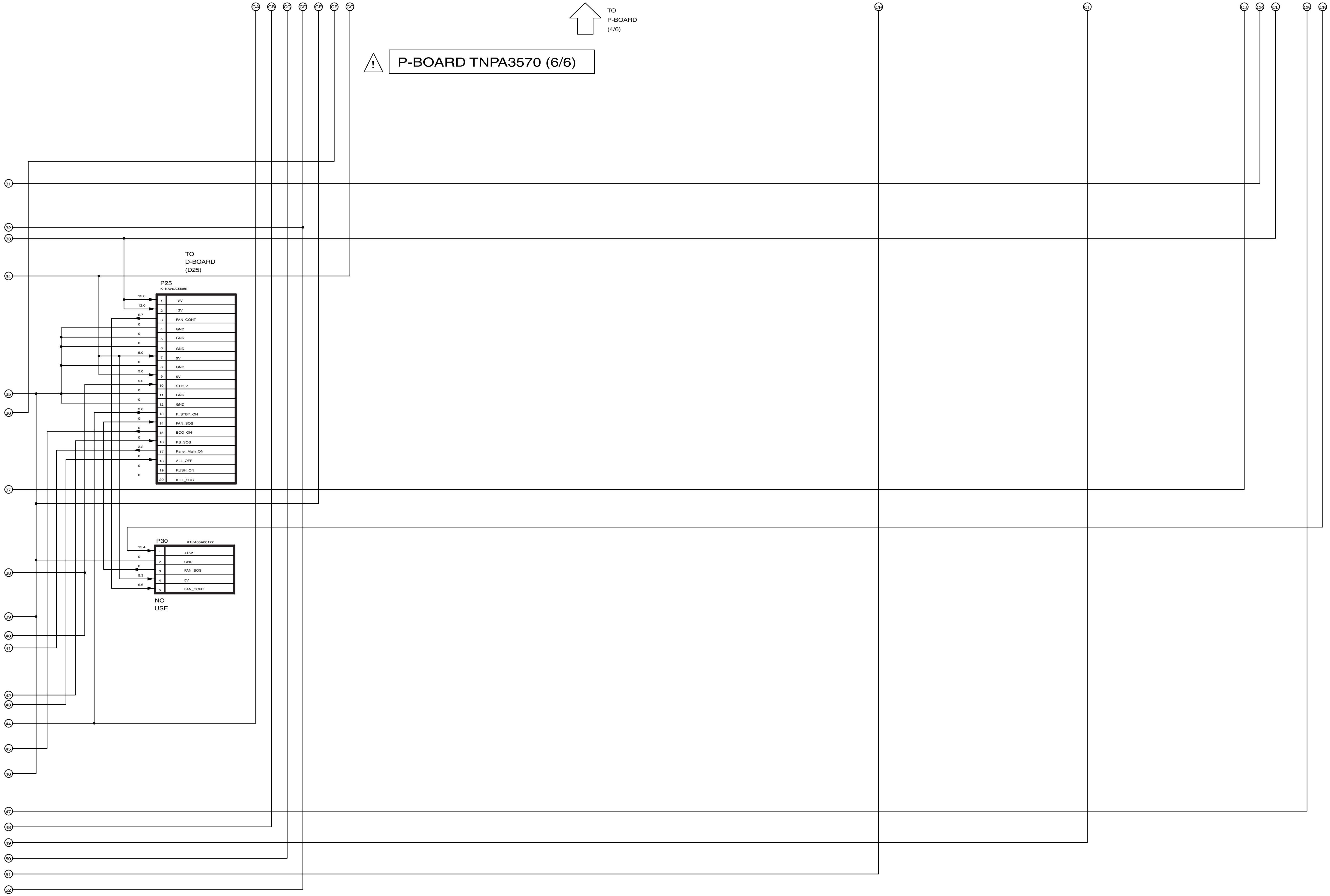
10 11 12 13 14 15 16 17 18

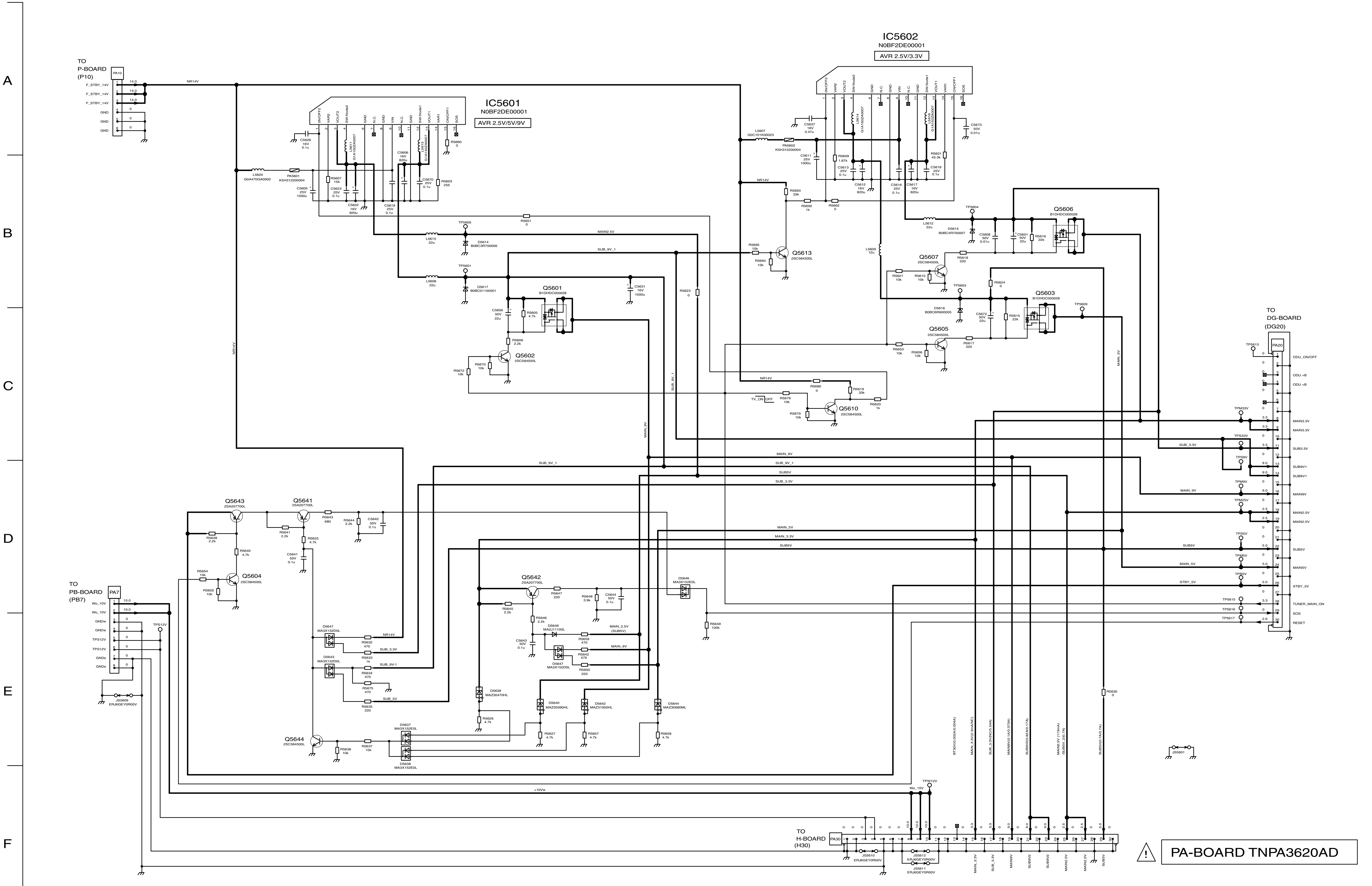

BA
BB
BC
BD
BE
BF
BG
TO
P-BOARD
(3/6)
BH
BI
BJ
BK
BL
BM
A
B
C
D
E
F
Q417
B1CHND000004
R404
100K
C405
0.01[KB]
R408
100K
IC411
C0BBAA000040
COMPARATOR
(AC IN)
R416
3300
IC402
C0BBAA000040
COMPARATOR
(PFC DET)
R494
560K[F]
R495
560K[F]
R496
560K[F]
R487
6800
R486
6800
R453
1000
Q403
B1CBGD000001
R418
47K
R420
470K
C411
0.01[KB]
D402
MA4240-M
C402
100p
C471
1[KB]
D403
MA4051N-MKT
R425
3300
C410
1[KB]
C421
0.01[KB]
C418
1[KB]
D434
MA4062-M
R497
24K[F]
R480
91K[F]
Q418
2SD1819ARL
C635
0.01[KB]
R693
4700
R692
4700
Q421
2SD1819ARL
C482
0.1[KB]
C422
0.01[KB]
R450
1000
HOT
COLD
IC403
CNC1S171RLL2
PHOTO
COUPLER
IC401
CNC1S171RLL2
PHOTO
COUPLER
IC404
CNC1S171RLL2
PHOTO
COUPLER
C612
0.01[KB]
R508
1000
HOT
COLD
HOT
COLD
PR503
K5H502Z00003
R505
33
R684
22K
Q536
B1CFQD000001
R685
100K
D505
AW04V0
C509
100/25V
C607
1[KB]
C593
0.22[KB]
R541
100K
R514
100K
R510
100K
R538
100K
R511
100K
R525
47K
Q550
B1CHGD000006
R540
1000
R602
3300[F]
R509
100K
R519
100K
R651
47K
R686
1000
Q551
B1CBGD000001
R689
1000
C510
0.1[KB]
R606
1200[F]
C608
0.01[KB]
R625
100K
C506
0.01[KB]
R677
220K
R557
470
Q537
B1CFQD000001
R678
22K
IC501
C2ABDD000064
POWER MCU
P30
P31
P00
P01
P02
P03
P10
P11
P12
P13
D0
D1
VDD
VSS
XIN
XOUT
CNVSS
Reset
P21
P20
D5
D4
D3
D2
R523
1000
Q552
B1CBGD000001
Q538
B1CFQD000001
R688
22K
C609
0.01[KB]
R694
100K
Q554
B1DHBD000004
C610
1[KB]
R618
100K
D559
MA4075-M
R617
10K
D565
MA4075-M
R575
1000
IC507
C0CBABE00023
+5V REG
C636
1[KB]
C637
0.1[KB]
C504
1[KB]
X501
4MHz
C519
1[KB]
R520
100K
R513
100K
R535
1000
Q535
2SD1819ARL
R501
22K
D555
MA4075-M
R512
22K
C583
1000P[KB]
Q553
2SD1819ARL
R616
10K
R687
10K
C626
0.01[KB]
C623
10/50V
R610
10K
R615
10K
R516
1000
R515
1000
R611
10K
R623
10K
C503
0.01[KB]
C507
0.01[KB]
Q544
XN0440100L
R581
47K
R690
10K
R640
10K
R653
10K
R571
10K
Q503
XN0440100L
IC502
COEBH0000190
RESET
C505
1000P[KB]
R568
180
R569
180
Q501
2SD1820A0L
R506
1000
Q502
2SD1820A0L
C501
0.01[KB]
R502
100K
C502
0.01[KB]
R504
1000
R503
100K
R536
1000
R517
10K
C508
0.01[KB]
Q557
2SD1819ARL
C639
0.01[KB]
R577
47K
R542
1000
Q559
2SD1819ARL
C631
0.01[KB]
R532
100
R583
47K
R586
47K
R697
100K
R518
100
R546
1000
Q561
2SD1819ARL
R580
47K
R578
47K
C638
0.01[KB]
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
P-BOARD TNPA3570 (5/6)
1
2
3
4
5
6
7
8
9

TH-42PM50U
P-Board (5 of 6) Schematic Diagram

TH-42PM50U
P-Board (5 of 6) Schematic Diagram

P-BOARD TNPA3570 (6/6)


CA
CB
CC
CD
CE
CF
CG
TO
P-BOARD
(4/6)
CH
CI
CJ
CK
CL
CM
CN
31
32
33
34
TO
D-BOARD
(D25)
P25
K1KA20A00085
12.0
1 12V
12.0
2 12V
6.7
3 FAN_CONT
0
4 GND
0
5 GND
0
6 GND
5.0
7 5V
0
8 GND
5.0
9 5V
5.0
10 STB5V
0
11 GND
0
12 GND
2.6
13 F_STBY_ON
0
14 FAN_SOS
0
15 ECO_ON
0
16 PS_SOS
3.2
17 Panel_Main_ON
0
18 ALL_OFF
0
19 RUSH_ON
0
20 KILL_SOS
35
36
37
P30
K1KA05A00177
15.4
1 +15V
0
2 GND
0
3 FAN_SOS
5.3
4 5V
6.6
5 FAN_CONT
NO
USE
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52


IC5602
N0BF2DE00001
AVR 2.5V/3.3V
IC5601
N0BF2DE00001
AVR 2.5V/5V/9V
TO
P-BOARD
(P10)
PA10
F_STBY_14V
GND
NR14V
L5604
G0A470GA0002
PA5601
K5H312200004
L5607
G0C101K00023
PA5602
K5H312200004
Q5601
B1DHDC000028
Q5602
2SC584500L
Q5603
B1DHDC000028
Q5605
2SC584500L
Q5606
B1DHDC000028
Q5607
2SC584500L
Q5610
2SC584500L
Q5613
2SC584500L
Q5641
2SA207700L
Q5642
2SA207700L
Q5643
2SA207700L
Q5644
2SC584500L
Q5604
2SC584500L
MAIN2.5V
SUB_9V_1
MAIN_9V
SUB5V
SUB_3.3V
MAIN_3.3V
STBY_5V
TV_ON
OFF
TO
DG-BOARD
(DG20)
PA20
ODU_ON/OFF
ODU +B
MAIN3.3V
SUB3.3V
SUB9V1
MAIN9V
MAIN2.5V
SUB5V
MAIN5V
STBY_5V
TUNER_MAIN_ON
SOS
RESET
TO
PB-BOARD
(PB7)
PA7
Wo_10V
GNDw
TPS12V
GNDs
+10Vw
TO
H-BOARD
(H30)
PA30
JS5609
ERJ6GEY0R00V
JS5610
ERJ6GEY0R00V
JS5611
ERJ6GEY0R00V
JS5612
ERJ6GEY0R00V
JS5601
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

PA-BOARD TNPA3620AD

TH-42PM50U
PA-Board Schematic Diagram

TH-42PM50U
PA-Board Schematic Diagram

A

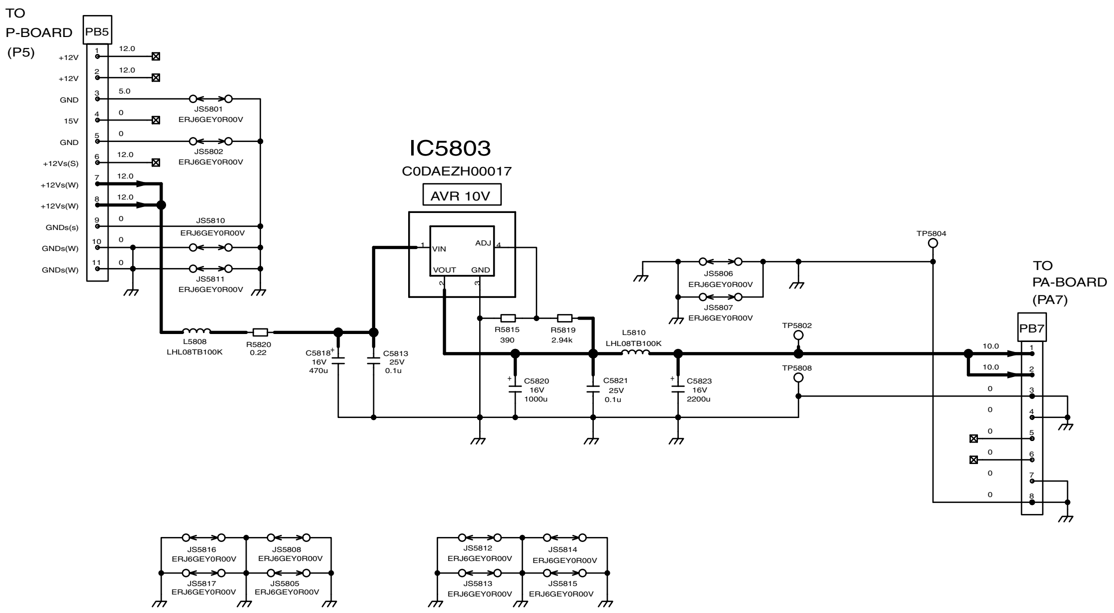
B

C

D

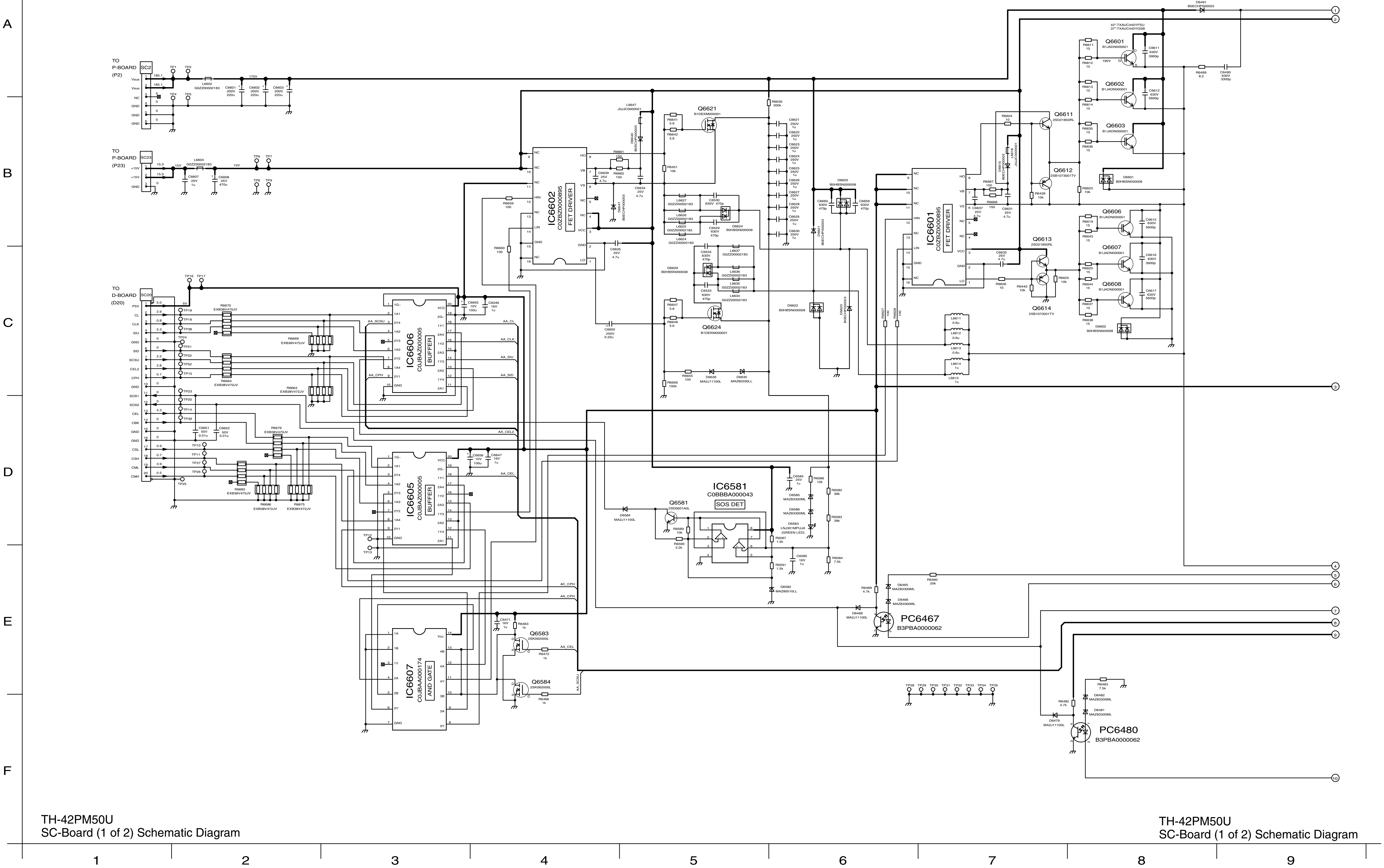
E

⚠ PB-BOARD TNPA3643



TO
P-BOARD
(P5)
PB5
1 +12V 12.0
2 +12V 12.0
3 GND 5.0
4 15V 0
5 GND 0
6 +12Vs(S) 12.0
7 +12Vs(W) 12.0
8 +12Vs(W) 12.0
9 GNDs(s) 0
10 GNDs(W) 0
11 GNDs(W) 0
JS5801
ERJ6GEY0R00V
JS5802
ERJ6GEY0R00V
JS5810
ERJ6GEY0R00V
JS5811
ERJ6GEY0R00V
L5808
LHL08TB100K
R5820
0.22
C5818
16V
470u
C5813
25V
0.1u
IC5803
C0DAEZH00017
AVR 10V
1 VIN
ADJ 4
VOUT
GND
2
3
R5815
390
R5819
2.94k
L5810
LHL08TB100K
C5820
16V
1000u
C5821
25V
0.1u
C5823
16V
2200u
JS5806
ERJ6GEY0R00V
JS5807
ERJ6GEY0R00V
TP5804
TP5802
TP5808
TO
PA-BOARD
(PA7)
PB7
1 10.0
2 10.0
3 0
4 0
5 0
6 0
7 0
8 0
JS5816
ERJ6GEY0R00V
JS5808
ERJ6GEY0R00V
JS5817
ERJ6GEY0R00V
JS5805
ERJ6GEY0R00V
JS5812
ERJ6GEY0R00V
JS5814
ERJ6GEY0R00V
JS5813
ERJ6GEY0R00V
JS5815
ERJ6GEY0R00V

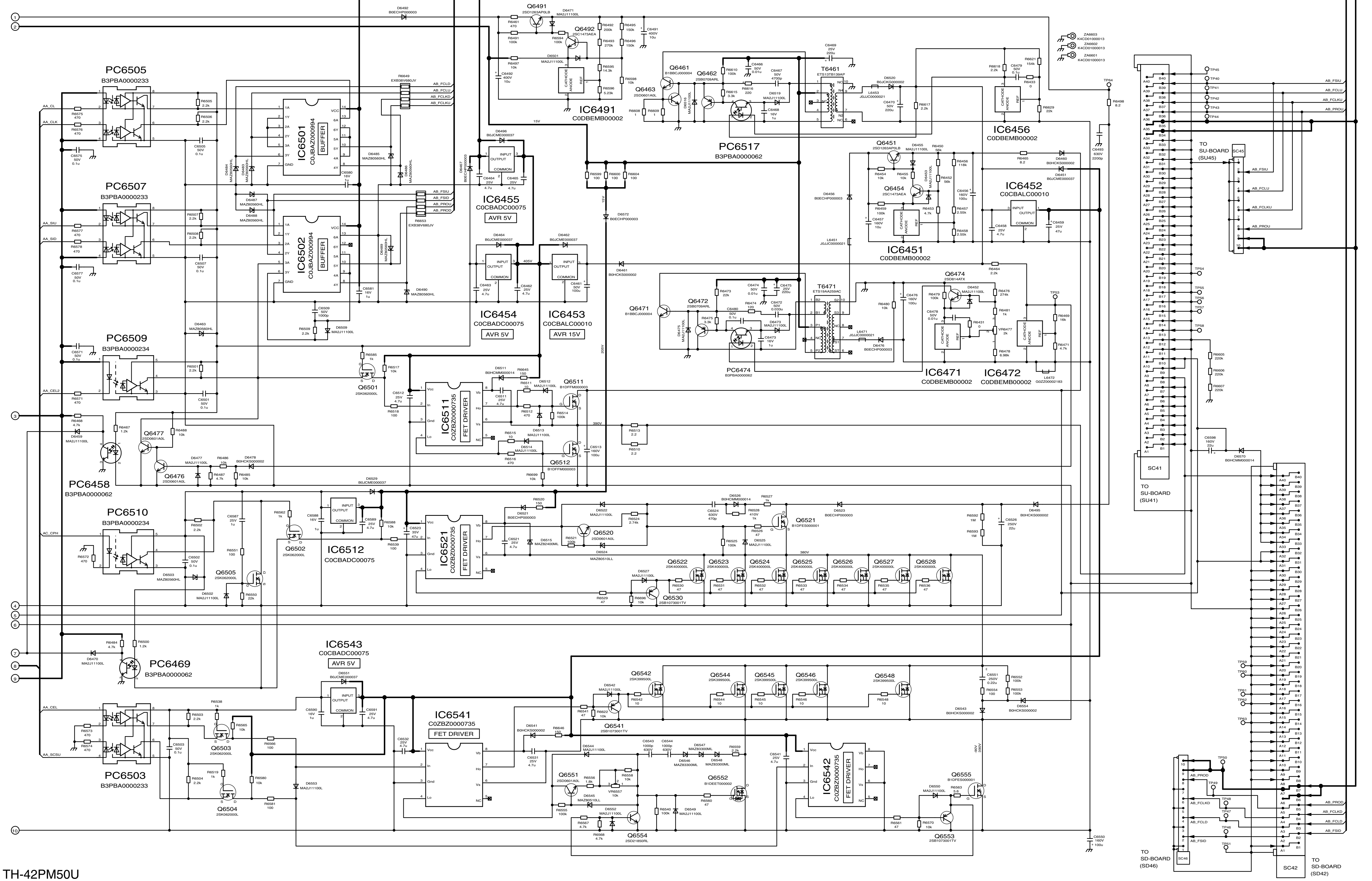
⚠ SC-BOARD TNPA3543 (1/2)


A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
TO P-BOARD (P2)
SC2
Vsus
Vsus
NC
GND
GND
GND
TP1
TP2
TP4
TP5
L6602
C6601
C6602
C6603
TO P-BOARD (P23)
SC23
+15V
+15V
GND
L6604
C6607
C6608
TP6
TP7
TP8
TP9
TO D-BOARD (D20)
SC20
P5V
CL
CLK
SIU
GND
SID
SCSU
CEL2
CPH
GND
SOS1
SOS2
CEL
CBK
GND
GND
CSL
CSH
CML
CMH
TP16
TP17
R6670
R6669
R6664
R6663
R6676
R6683
R6686
R6675
C6651
C6652
IC6606
C0JBAZ000005
BUFFER
IC6605
C0JBAZ000005
BUFFER
IC6607
C0JBAA000174
AND GATE
IC6602
C0ZBZ0000895
FET DRIVER
IC6601
C0ZBZ0000895
FET DRIVER
IC6581
C0BBBA000043
SOS DET
Q6621
B1DEKM000001
Q6624
B1DEKM000001
Q6581
2SD0601A0L
Q6583
2SK062000L
Q6584
2SK062000L
Q6601
B1JADN000001
Q6602
B1JADN000001
Q6603
B1JADN000001
Q6606
B1JADN000001
Q6607
B1JADN000001
Q6608
B1JADN000001
Q6611
2SD21850RL
Q6612
2SB1073001TV
Q6613
2SD21850RL
Q6614
2SB1073001TV
42":TXAUC440YFSU
37":TXAUC440YGSB
D6491
B0ECHP000003
D6601
B0HBSN000008
D6602
B0HBSN000008
D6620
B0HBSN000008
D6622
B0HBSN000008
D6629
B0HBSN000008
D6583
LNJ301MPUJA
(GREEN LED)
L6611
L6612
L6613
L6614
L6615
AA_SCSU
AA_CL
AA_CLK
AA_SIU
AA_SID
AA_CPH
AA_CEL2
AA_CEL
AC_CPH
AA_CPH
AA_CEL
AA_SCSU
PC6467
B3PBA0000062
PC6480
B3PBA0000062
TP28
TP29
TP30
TP31
TP32
TP33
TP34
TP35
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩

TH-42PM50U
SC-Board (1 of 2) Schematic Diagram

TH-42PM50U
SC-Board (1 of 2) Schematic Diagram

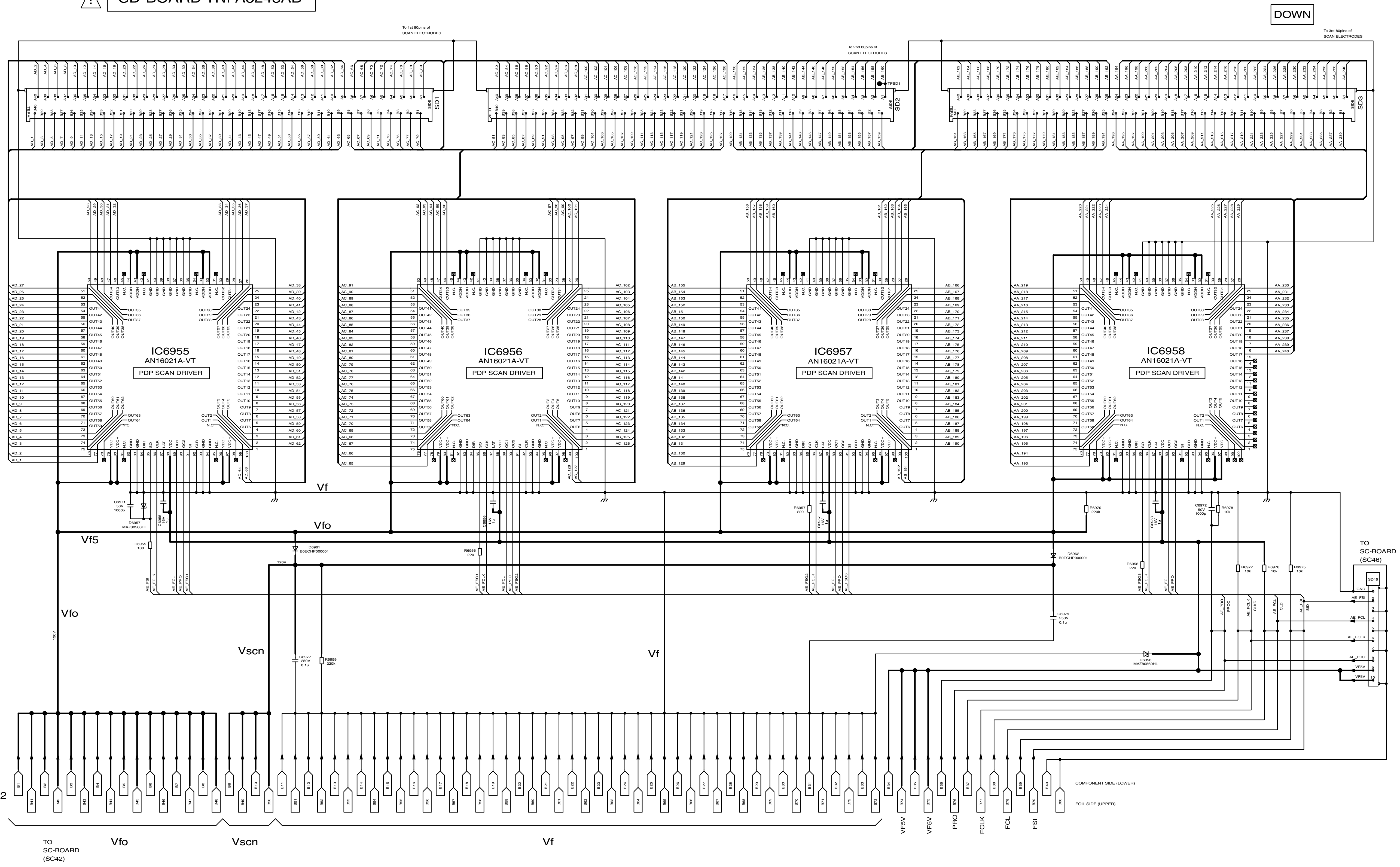
SC-BOARD TNPA3543 (2/2)


PC6505
B3PBA0000233
PC6507
B3PBA0000233
PC6509
B3PBA0000234
PC6458
B3PBA0000062
PC6510
B3PBA0000234
PC6469
B3PBA0000062
PC6503
B3PBA0000233
IC6501
C0JBAZ000994
BUFFER
IC6502
C0JBAZ000994
BUFFER
IC6455
C0CBADC00075
AVR 5V
IC6454
C0CBADC00075
AVR 5V
IC6453
C0CBALC00010
AVR 15V
IC6491
C0DBEMB00002
PC6517
B3PBA0000062
IC6456
C0DBEMB00002
IC6452
C0CBALC00010
IC6451
C0DBEMB00002
T6461
T6471
PC6474
B3PBA0000062
IC6471
C0DBEMB00002
IC6472
C0DBEMB00002
IC6511
C0ZBZ0000735
FET DRIVER
IC6512
C0CBADC00075
IC6521
C0ZBZ0000735
FET DRIVER
IC6543
C0CBADC00075
AVR 5V
IC6541
C0ZBZ0000735
FET DRIVER
IC6542
C0ZBZ0000735
FET DRIVER
Q6491
Q6492
Q6461
Q6462
Q6463
Q6451
Q6454
Q6471
Q6472
Q6474
Q6477
Q6476
Q6501
Q6502
Q6505
Q6503
Q6504
Q6511
Q6512
Q6520
Q6521
Q6522
Q6523
Q6524
Q6525
Q6526
Q6527
Q6528
Q6530
Q6541
Q6542
Q6544
Q6545
Q6546
Q6548
Q6551
Q6552
Q6553
Q6554
Q6555
AA_CL
AA_CLK
AA_SIU
AA_SID
AA_CEL2
AA_CPH
AA_CEL
AA_SCSU
AB_FCLD
AB_FCLU
AB_FCLKD
AB_FCLKU
AB_FSID
AB_FSIU
AB_PROD
AB_PROU
TO
SU-BOARD
(SU45)
SC45
SC41
TO
SU-BOARD
(SU41)
SC46
TO
SD-BOARD
(SD46)
SC42
TO
SD-BOARD
(SD42)
ZA6601
ZA6602
ZA6603
15V
405V
390V
380V
1
2
3
4
5
6
7
8
9
10

TH-42PM50U
SC-Board (2 of 2) Schematic Diagram

TH-42PM50U SC-Board (2 of 2) Schematic Diagram

SD-BOARD TNPA3243AB

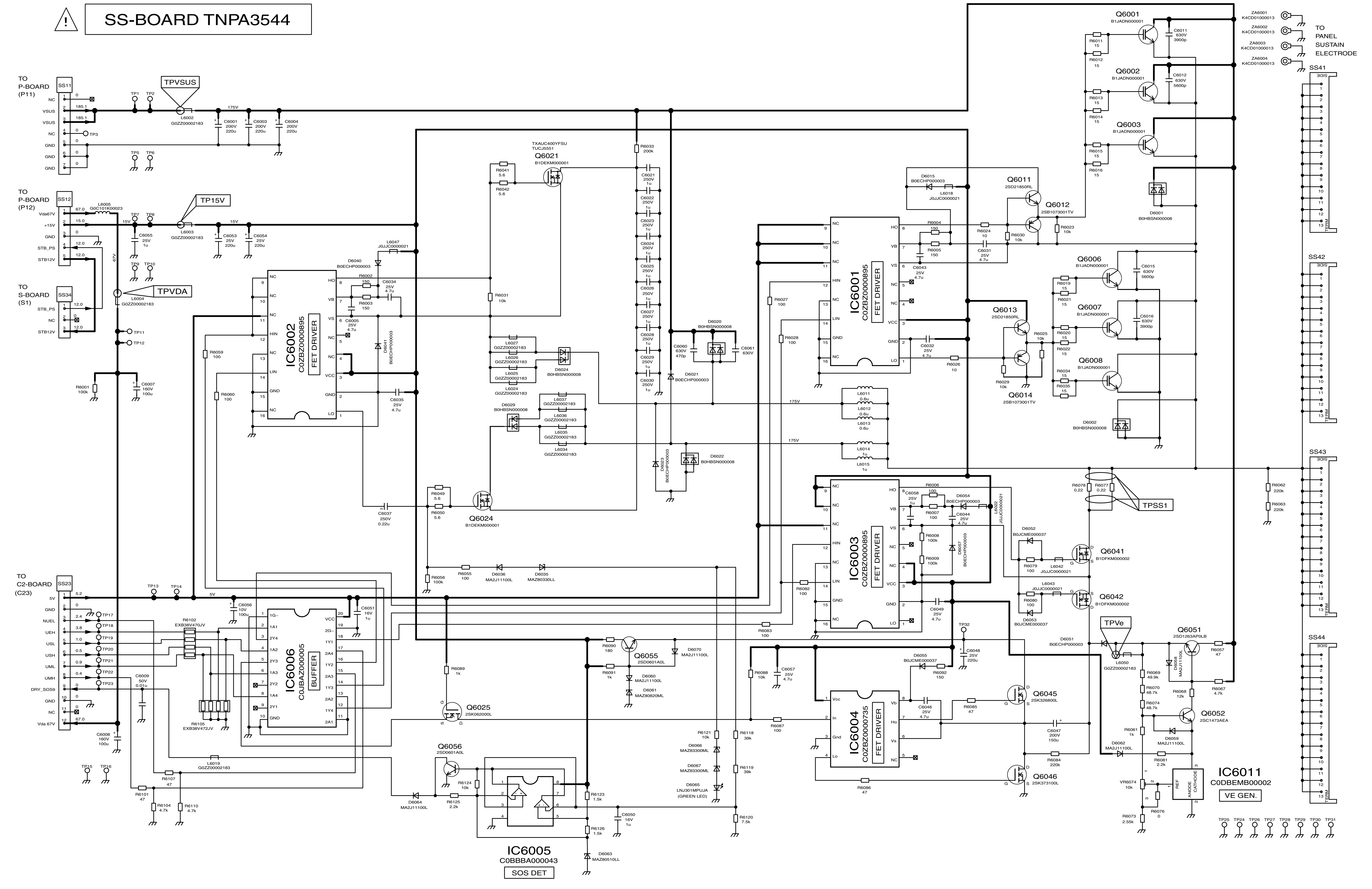


DOWN
To 1st 80pins of SCAN ELECTRODES
To 2nd 80pins of SCAN ELECTRODES
To 3rd 80pins of SCAN ELECTRODES
SD1
SD2
SD3
TPSD1
IC6955
AN16021A-VT
PDP SCAN DRIVER
IC6956
AN16021A-VT
PDP SCAN DRIVER
IC6957
AN16021A-VT
PDP SCAN DRIVER
IC6958
AN16021A-VT
PDP SCAN DRIVER
Vf
Vfo
Vf5
Vscn
120V
130V
C6971 50V 1000p
D6957 MAZ80560HL
C6955 16V 1u
R6955 100
D6961 B0ECHP000001
R6956 220
C6956 16V 1u
R6957 220
C6957 16V 1u
R6979 220k
C6972 50V 1000p
R6978 10k
C6958 16V 1u
R6958 220
D6962 B0ECHP000001
C6979 250V 0.1u
C6977 250V 0.1u
R6959 220k
D6956 MAZ80560HL
R6977 10k
R6976 10k
R6975 10k
TO SC-BOARD (SC46)
SD46
GND
AE_FSI
AE_FCL
AE_FCLK
AE_PRO
VF5V
SD42
COMPONENT SIDE (LOWER)
FOIL SIDE (UPPER)
TO SC-BOARD (SC42)
Vfo
Vscn
Vf
VF5V
VF5V
PRO
FCLK
FCL
FSI

TH-42PM50U
SD-Board Schematic Diagram

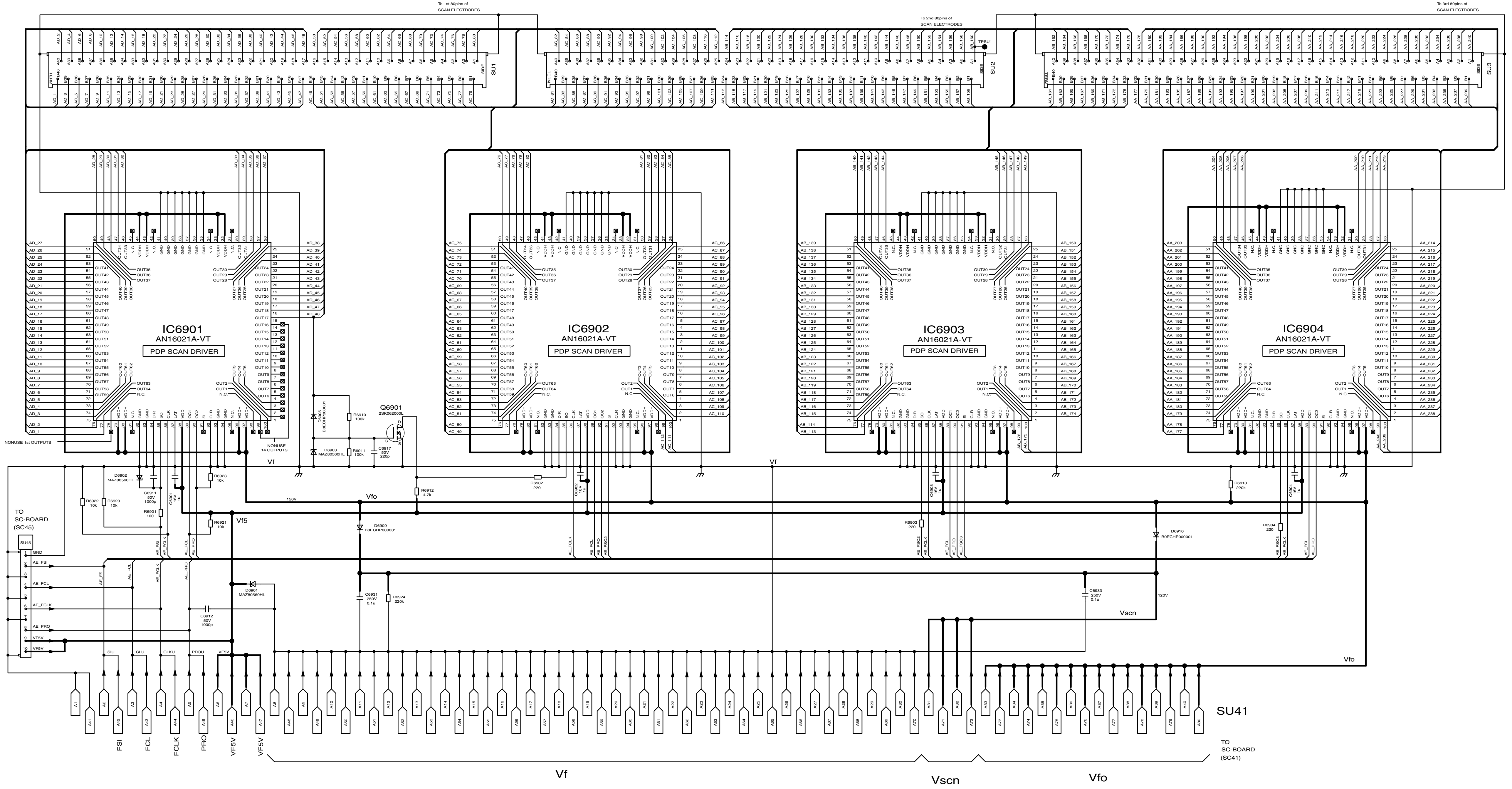
TH-42PM50U
SD-Board Schematic Diagram

⚠ SS-BOARD TNPA3544


TO P-BOARD (P11)
SS11
NC
VSUS
VSUS
NC
GND
GND
GND
185.1
175V
TP1
TP2
TPVSUS
L6002 G0ZZ00002183
C6001 200V 220u
C6003 200V 220u
C6004 200V 220u
TP3
TP5
TP6
TO P-BOARD (P12)
SS12
Vda67V
+15V
GND
STB_PS
STB12V
67.0
15.0
12.0
L6005 G0C101K00023
TP7
TP8
TP15V
15V
L6003 G0ZZ00002183
C6055 25V 1u
C6053 25V 220u
C6054 25V 220u
TP9
TP10
67V
TO S-BOARD (S1)
SS34
TPVDA
L6004 G0ZZ00002183
TP11
TP12
R6001 100k
C6007 160V 100u
TO C2-BOARD (C23)
SS23
5V
NUEL
UEH
USL
USH
UML
UMH
DRY_SOS9
Vda 67V
TP13
TP14
TP15
TP16
TP17
TP18
TP19
TP20
TP21
TP22
TP23
C6009 50V 0.01u
C6008 160V 100u
R6102 EXB38V470JV
R6105 EXB38V472JV
C6056 10V 100u
C6051 16V 1u
IC6006 C0JBAZ000005 BUFFER
L6019 G0ZZ00002183
R6107 47
R6101 47
R6104 4.7k
R6110 4.7k
IC6002 C0ZBZ0000895 FET DRIVER
R6059 100
R6060 100
D6040 B0ECHP000003
L6047 J0JJC0000021
R6002 150
R6003 150
C6034 25V 4.7u
C6005 25V 4.7u
D6041 B0ECHP000003
C6035 25V 4.7u
TXAUC400YFSU TUCJ5551
Q6021 B1DEKM000001
R6041 5.6
R6042 5.6
R6031 10k
L6027 G0ZZ00002183
L6026 G0ZZ00002183
L6025 G0ZZ00002183
L6024 G0ZZ00002183
D6024 B0HBSN000008
D6029 B0HBSN000008
L6037 G0ZZ00002183
L6036 G0ZZ00002183
L6035 G0ZZ00002183
L6034 G0ZZ00002183
R6049 5.6
R6050 5.6
Q6024 B1DEKM000001
C6037 250V 0.22u
R6033 200k
C6021 250V 1u
C6022 250V 1u
C6023 250V 1u
C6024 250V 1u
C6025 250V 1u
C6026 250V 1u
C6027 250V 1u
C6028 250V 1u
C6029 250V 1u
C6030 250V 1u
D6020 B0HBSN000008
C6060 630V 470p
C6061 630V
D6021 B0ECHP000003
D6023 B0ECHP000003
D6022 B0HBSN000008
R6056 100k
R6055 100
D6036 MA2J11100L
D6035 MAZ80330LL
R6089 1k
Q6025 2SK062000L
Q6056 2SD0601A0L
R6124 10k
D6064 MA2J11100L
R6125 2.2k
IC6005 C0BBBA000043 SOS DET
Q6055 2SD0601A0L
R6090 180
R6091 1k
D6070 MA2J11100L
D6060 MA2J11100L
D6061 MAZ80820ML
R6123 1.5k
R6126 1.5k
C6050 16V 1u
D6063 MAZ80510LL
R6121 10k
D6066 MAZ83300ML
D6067 MAZ83300ML
D6065 LNJ301MPUJA (GREEN LED)
R6118 39k
R6119 39k
R6120 7.5k
IC6001 C0ZBZ0000895 FET DRIVER
D6015 B0ECHP000003
L6018 J0JJC0000021
R6004 150
R6005 150
C6043 25V 4.7u
C6031 25V 4.7u
C6032 25V 4.7u
R6027 100
R6028 100
R6024 10
R6030 10k
R6023 10k
R6026 10
Q6011 2SD21850RL
Q6012 2SB1073001TV
Q6013 2SD21850RL
Q6014 2SB1073001TV
R6025 10k
R6029 10k
L6011 0.6u
L6012 0.6u
L6013 0.6u
L6014 1u
L6015 1u
Q6001 B1JADN000001
Q6002 B1JADN000001
Q6003 B1JADN000001
R6011 15
R6012 15
R6013 15
R6014 15
R6015 15
R6016 15
C6011 630V 3900p
C6012 630V 5600p
D6001 B0HBSN000008
ZA6001 K4CD01000013
ZA6002 K4CD01000013
ZA6003 K4CD01000013
ZA6004 K4CD01000013
TO PANEL SUSTAIN ELECTRODE
SS41
SS42
SS43
SS44
TERM
Q6006 B1JADN000001
Q6007 B1JADN000001
Q6008 B1JADN000001
C6015 630V 5600p
C6016 630V 3900p
R6019 15
R6021 15
R6020 15
R6022 15
R6034 15
R6035 15
D6002 B0HBSN000008
IC6003 C0ZBZ0000895 FET DRIVER
R6006 100
R6007 100
C6058 25V 1u
D6054 B0ECHP000003
C6044 25V 4.7u
L6022 J0JJC0000021
R6008 100k
R6009 100k
D6057 B0ECHP000003
R6082 100
R6083 100
C6049 25V 4.7u
R6076 0.22
R6077 0.22
TPSS1
R6062 220k
R6063 220k
D6052 B0JCME000037
R6079 100
L6042 J0JJC0000021
Q6041 B1DFKM000002
L6043 J0JJC0000021
R6080 100
D6053 B0JCME000037
Q6042 B1DFKM000002
TP32
C6048 25V 220u
R6088 10k
C6057 25V 4.7u
R6087 100
IC6004 C0ZBZ0000735 FET DRIVER
D6055 B0JCME000037
R6092 150
C6046 25V 4.7u
R6085 47
Q6045 2SK326800L
C6047 200V 150u
R6084 220k
R6086 47
Q6046 2SK373100L
TPVe
D6051 B0ECHP000003
L6050 G0ZZ00002183
Q6051 2SD1263AP0LB
D6058 MA2J11100L
R6057 47
R6069 49.9k
R6070 48.7k
R6074 48.7k
R6068 12k
R6067 4.7k
Q6052 2SC1473AEA
R6061 1k
D6059 MA2J11100L
D6062 MA2J11100L
R6081 2.2k
VR6074 10k
R6073 2.55k
R6076 0
IC6011 C0DBEMB00002 VE GEN.
REF ANODE CATHODE
TP25
TP24
TP26
TP27
TP28
TP29
TP30
TP31
A
B
C
D
E
1
2
3
4
5
6
7
8

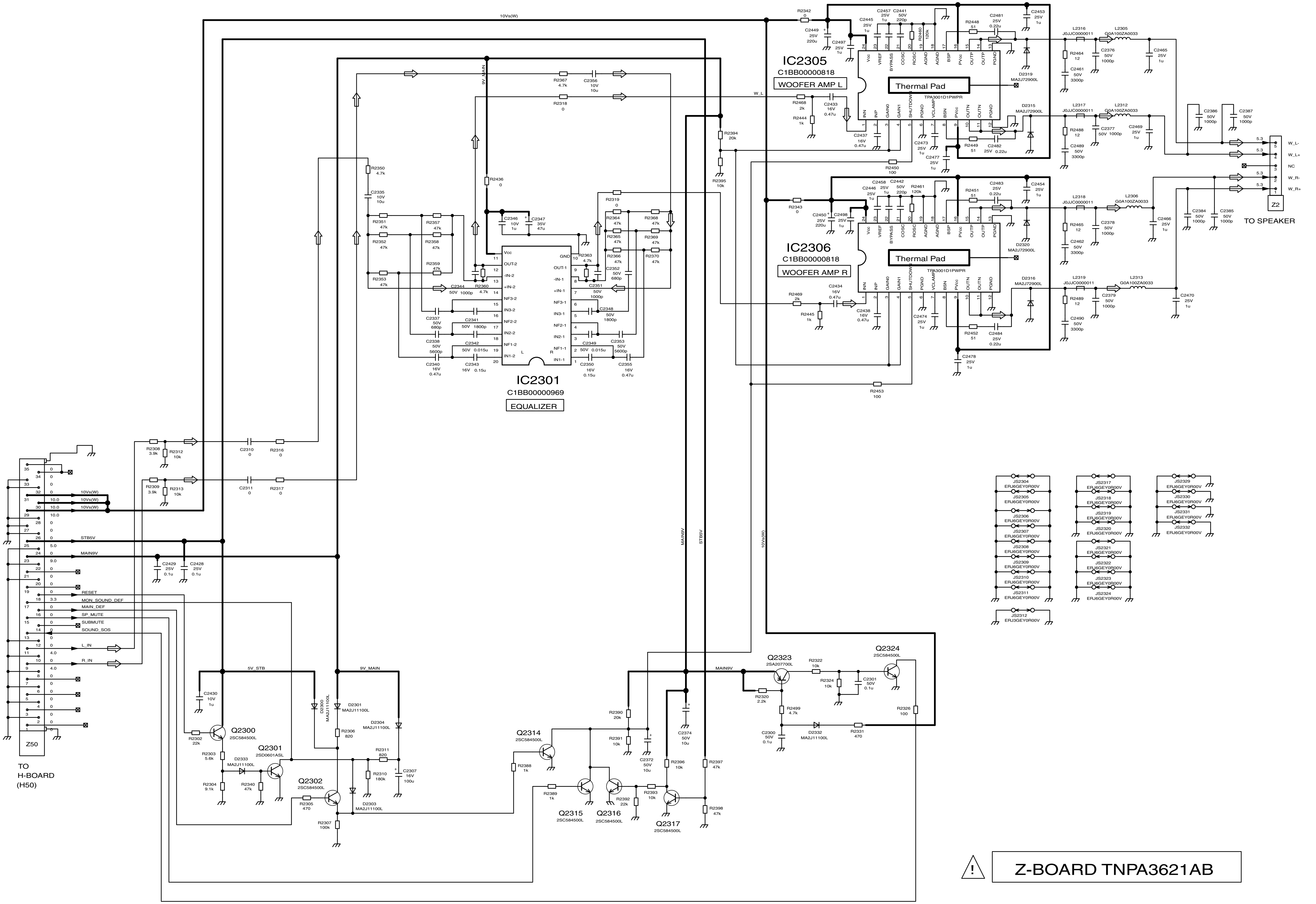
⚠ SU-BOARD TNPA3242AB

UP


To 1st 80pins of SCAN ELECTRODES
To 2nd 80pins of SCAN ELECTRODES
To 3rd 80pins of SCAN ELECTRODES
SU1
SU2
SU3
TPSU1
IC6901
AN16021A-VT
PDP SCAN DRIVER
IC6902
AN16021A-VT
PDP SCAN DRIVER
IC6903
AN16021A-VT
PDP SCAN DRIVER
IC6904
AN16021A-VT
PDP SCAN DRIVER
NONUSE 1st OUTPUTS
NONUSE 14 OUTPUTS
Q6901
2SK3620000L
D6905
B0ECHP000001
R6910 100k
D6903 MAZ80560HL
R6911 100k
C6917 50V 220p
D6902 MAZ80560HL
C6911 50V 1000p
R6923 10k
R6922 10k
R6920 10k
R6901 100
C6901 16V 1u
R6921 10k
Vf5
150V
Vfo
Vf
R6912 4.7k
R6902 220
C6902 16V 1u
D6909 B0ECHP000001
C6931 250V 0.1u
R6924 220k
D6901 MAZ80560HL
C6912 50V 1000p
TO SC-BOARD (SC45)
SU45
GND
AE_FSI
AE_FCL
AE_FCLK
AE_PRO
VF5V
R6903 220
C6903 16V 1u
D6910 B0ECHP000001
C6933 250V 0.1u
120V
Vscn
R6913 220k
C6904 16V 1u
R6904 220
SIU
CLU
CLKU
PROU
VF5V
SU41
FSI
FCL
FCLK
PRO
VF5V
VF5V
TO SC-BOARD (SC41)
Vf
Vscn
Vfo
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

TH-42PM50U
SU-Board Schematic Diagram

TH-42PM50U
SU-Board Schematic Diagram


A
B
C
D
E
1
2
3
4
5
6
7
8
10Vs(W)
IC2305
C1BB00000818
WOOFER AMP L
Thermal Pad
TPA3001D1PWPR
IC2306
C1BB00000818
WOOFER AMP R
IC2301
C1BB00000969
EQUALIZER
Vcc
INN
INP
GAIN0
GAIN1
SHUTDOWN
PGND
VCLAMP
BSN
PVcc
OUTN
VREF
BYPASS
COSC
ROSC
AGND
BSP
OUTP
W_L
W_L-
W_L+
NC
W_R-
W_R+
Z2
TO SPEAKER
Z50
TO
H-BOARD
(H50)
STB5V
MAIN9V
RESET
MON_SOUND_DEF
MAIN_DEF
SP_MUTE
SUBMUTE
SOUND_SOS
L_IN
R_IN
5V_STB
9V_MAIN
MAINSV
Q2300
2SC584500L
Q2301
2SD0601ASL
Q2302
2SC584500L
Q2314
2SC584500L
Q2315
2SC584500L
Q2316
2SC584500L
Q2317
2SC584500L
Q2323
2SA207700L
Q2324
2SC584500L
D2301
MA2J11100L
D2300
MA2J11100L
D2304
MA2J11100L
D2303
MA2J11100L
D2333
MA2J11100L
D2332
MA2J11100L
D2319
MA2J72900L
D2315
MA2J72900L
D2320
MA2J72900L
D2316
MA2J72900L
L2316
J0JJC0000011
L2305
G0A100ZA0033
L2317
J0JJC0000011
L2312
G0A100ZA0033
L2318
J0JJC0000011
L2306
G0A100ZA0033
L2319
J0JJC0000011
L2313
G0A100ZA0033
JS2304
ERJ6GEY0R00V
JS2305
ERJ6GEY0R00V
JS2306
ERJ6GEY0R00V
JS2307
ERJ6GEY0R00V
JS2308
ERJ6GEY0R00V
JS2309
ERJ6GEY0R00V
JS2310
ERJ6GEY0R00V
JS2311
ERJ6GEY0R00V
JS2312
ERJ3GEY0R00V
JS2317
ERJ6GEY0R00V
JS2318
ERJ6GEY0R00V
JS2319
ERJ6GEY0R00V
JS2320
ERJ6GEY0R00V
JS2321
ERJ6GEY0R00V
JS2322
ERJ6GEY0R00V
JS2323
ERJ6GEY0R00V
JS2324
ERJ6GEY0R00V
JS2329
ERJ6GEY0R00V
JS2330
ERJ6GEY0R00V
JS2331
ERJ6GEY0R00V
JS2332
ERJ6GEY0R00V

Z-BOARD TNPA3621AB

TH-42PM50U
Z-Board Schematic Diagram

TH-42PM50U
Z-Board Schematic Diagram

13 Block and Schematic Diagram

13.1. Schematic Diagram Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

Notes:

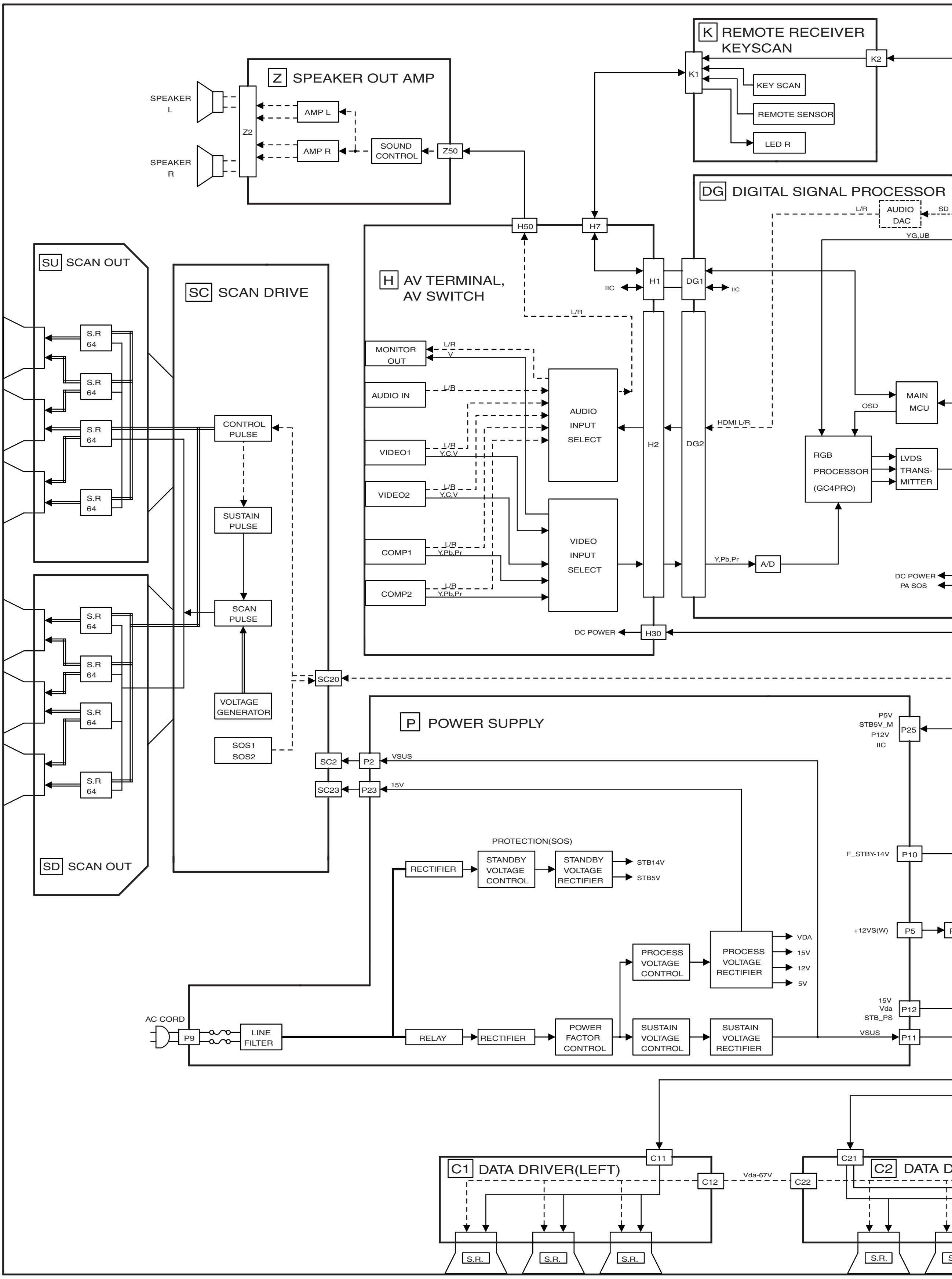
1. **Resistor**
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
2. **Capacitor**
   Unit of capacitance is µF, unless otherwise noted.
3. Coil
   Unit of inductance is H, unless otherwise noted.
4. Test Point
   ⫯ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold) ▽ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source AC120V, 50/60Hz
   Receiving Signal .... Colour Bar signal (RF)
   All customer's controls .... Maximum positions
7. When arrow mark (↗) is found, connection is easily found from the direction of arrow.

8. Indicates the major signal flow. : Video ➡ Audio ⇨
9. This schematic diagram is the latest at the time of printing and subject to change without notice.

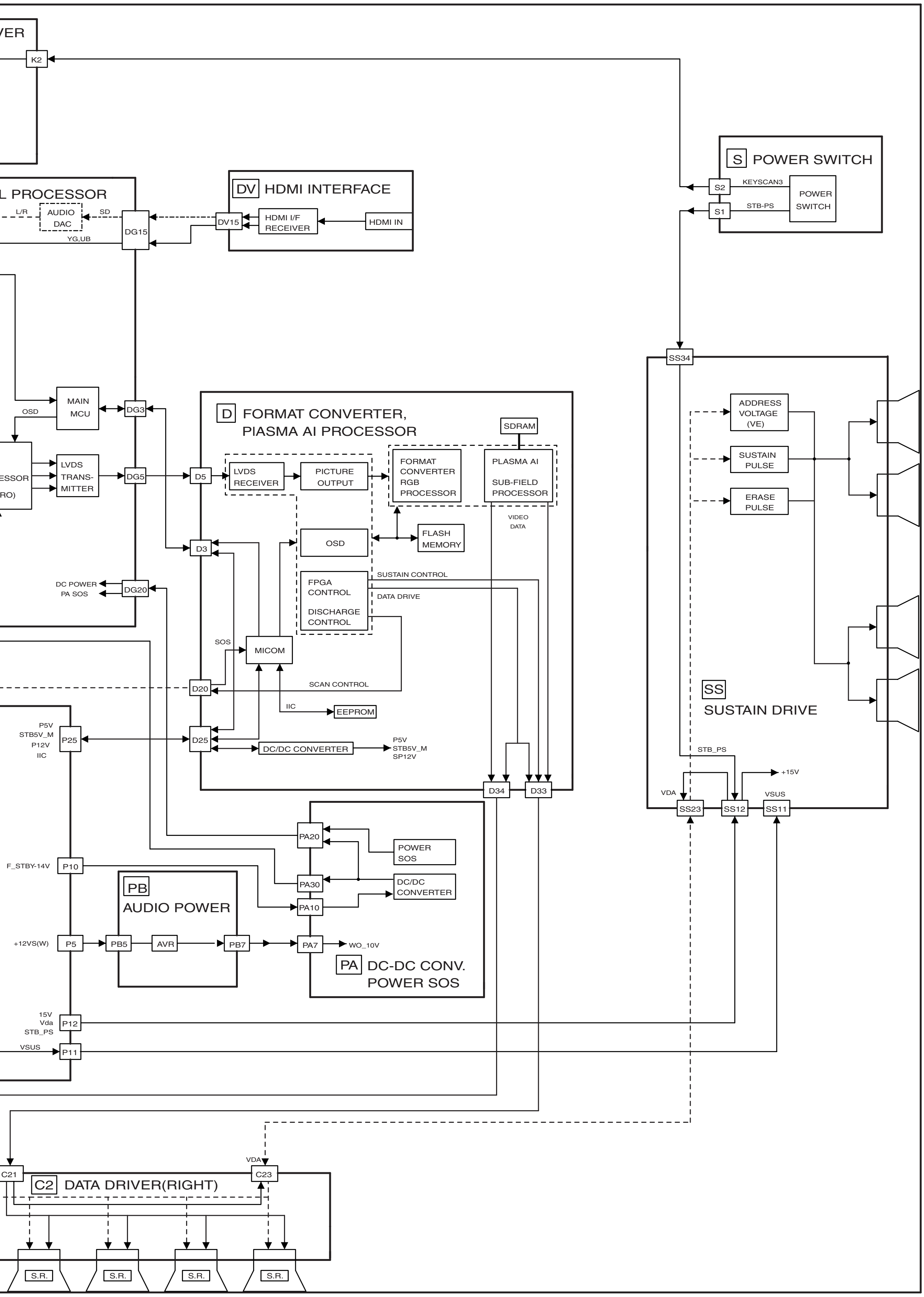
Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
   Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.

13.2. Main Block Diagram

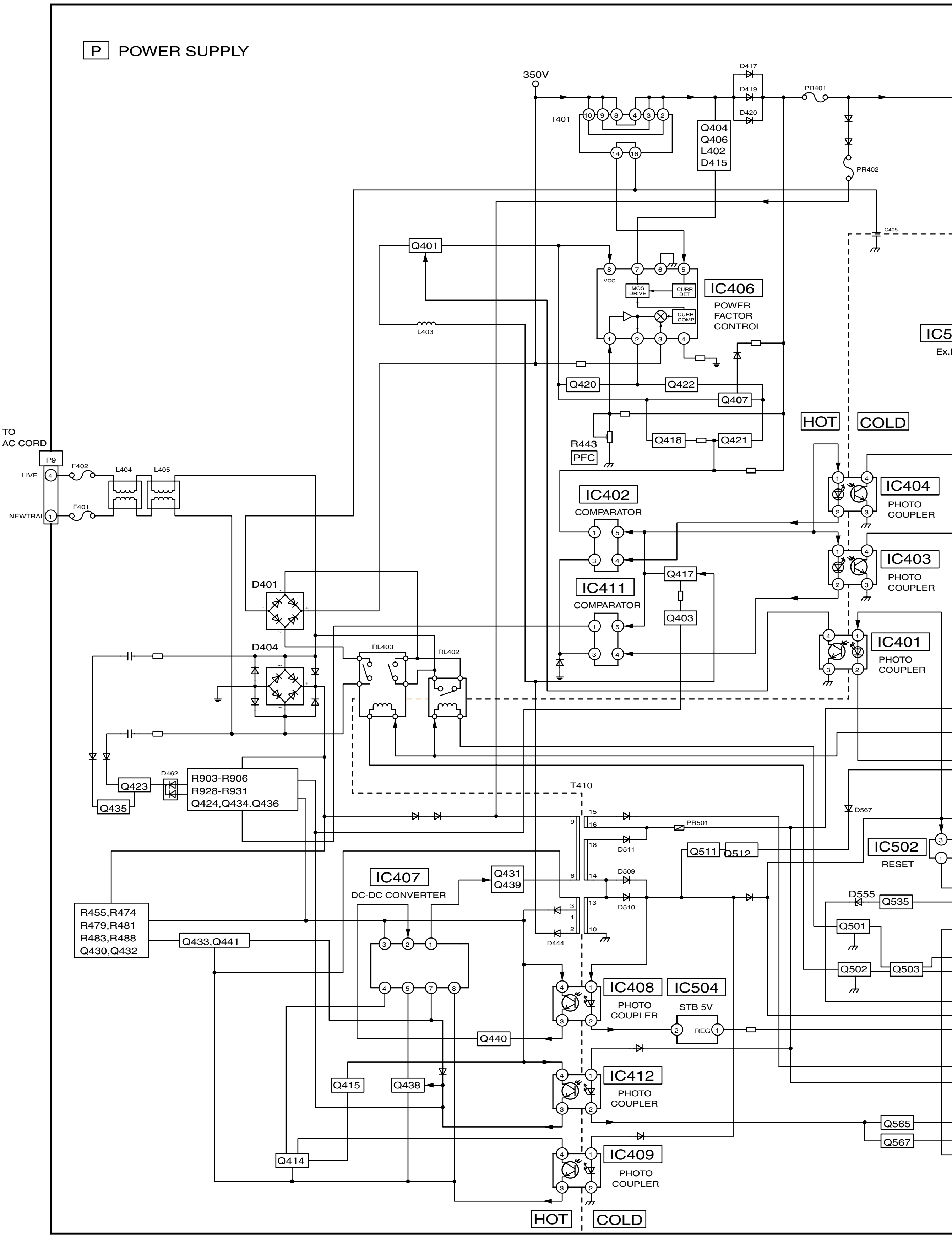

K REMOTE RECEIVER KEYSCAN
K1
K2
KEY SCAN
REMOTE SENSOR
LED R
Z SPEAKER OUT AMP
SPEAKER L
SPEAKER R
Z2
AMP L
AMP R
SOUND CONTROL
Z50
DG DIGITAL SIGNAL PROCESSOR
L/R
AUDIO DAC
SD
YG,UB
H50
H7
SU SCAN OUT
SC SCAN DRIVE
H AV TERMINAL, AV SWITCH
IIC
H1
DG1
IIC
L/R
S.R 64
S.R 64
S.R 64
S.R 64
MONITOR OUT
L/R
V
AUDIO IN
L/R
AUDIO INPUT SELECT
MAIN MCU
OSD
CONTROL PULSE
HDMI L/R
VIDEO1
L/R
Y,C,V
H2
DG2
RGB PROCESSOR (GC4PRO)
LVDS TRANS-MITTER
VIDEO2
L/R
Y,C,V
SUSTAIN PULSE
COMP1
L/R
Y,Pb,Pr
VIDEO INPUT SELECT
Y,Pb,Pr
A/D
COMP2
L/R
Y,Pb,Pr
DC POWER
PA SOS
SCAN PULSE
S.R 64
DC POWER
H30
S.R 64
SC20
VOLTAGE GENERATOR
S.R 64
P POWER SUPPLY
P5V
STB5V_M
P12V
IIC
P25
SOS1
SOS2
SC2
P2
VSUS
S.R 64
SC23
P23
15V
PROTECTION(SOS)
SD SCAN OUT
RECTIFIER
STANDBY VOLTAGE CONTROL
STANDBY VOLTAGE RECTIFIER
STB14V
STB5V
F_STBY-14V
P10
+12VS(W)
P5
PROCESS VOLTAGE CONTROL
PROCESS VOLTAGE RECTIFIER
VDA
15V
12V
5V
15V
Vda
STB_PS
P12
AC CORD
P9
LINE FILTER
RELAY
RECTIFIER
POWER FACTOR CONTROL
SUSTAIN VOLTAGE CONTROL
SUSTAIN VOLTAGE RECTIFIER
VSUS
P11
C1 DATA DRIVER(LEFT)
C11
C12
Vda-67V
C22
C21
C2 DATA D
S.R.
S.R.
S.R.
S.R.

TH-42PM50U Main Block Diagram

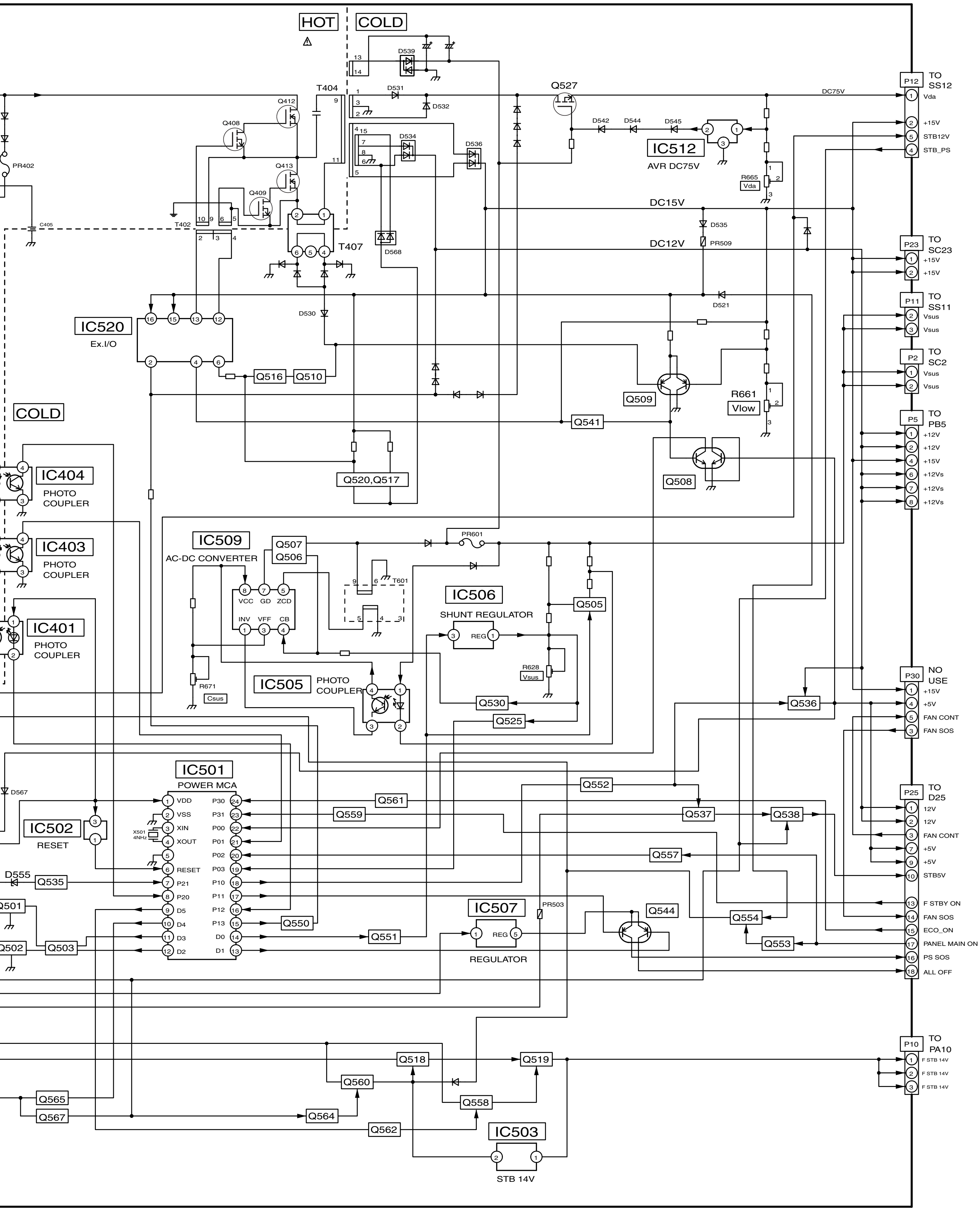

VER
K2
S
POWER SWITCH
KEYSCAN3
STB-PS
S2
S1
POWER
SWITCH
L PROCESSOR
L/R
AUDIO
DAC
SD
YG,UB
DG15
DV
HDMI INTERFACE
DV15
HDMI I/F
RECEIVER
HDMI IN
SS34
MAIN
MCU
OSD
DG3
D
FORMAT CONVERTER,
PIASMA AI PROCESSOR
SDRAM
ESSOR
RO)
LVDS
TRANS-
MITTER
DG5
D5
LVDS
RECEIVER
PICTURE
OUTPUT
FORMAT
CONVERTER
RGB
PROCESSOR
PLASMA AI
SUB-FIELD
PROCESSOR
VIDEO
DATA
D3
OSD
FLASH
MEMORY
DC POWER
PA SOS
DG20
FPGA
CONTROL
DISCHARGE
CONTROL
SUSTAIN CONTROL
DATA DRIVE
SOS
MICOM
D20
SCAN CONTROL
IIC
EEPROM
P5V
STB5V_M
P12V
IIC
P25
D25
DC/DC CONVERTER
P5V
STB5V_M
SP12V
D34
D33
ADDRESS
VOLTAGE
(VE)
SUSTAIN
PULSE
ERASE
PULSE
SS
SUSTAIN DRIVE
STB_PS
+15V
VDA
VSUS
SS23
SS12
SS11
PA20
POWER
SOS
F_STBY-14V
P10
PB
AUDIO POWER
PA30
DC/DC
CONVERTER
PA10
+12VS(W)
P5
PB5
AVR
PB7
PA7
WO_10V
PA
DC-DC CONV.
POWER SOS
15V
Vda
STB_PS
P12
VSUS
P11
VDA
C21
C2
DATA DRIVER(RIGHT)
C23
S.R.
S.R.
S.R.
S.R.

TH-42PM50U Main Block Diagram

13.3. P-Board Block Diagram

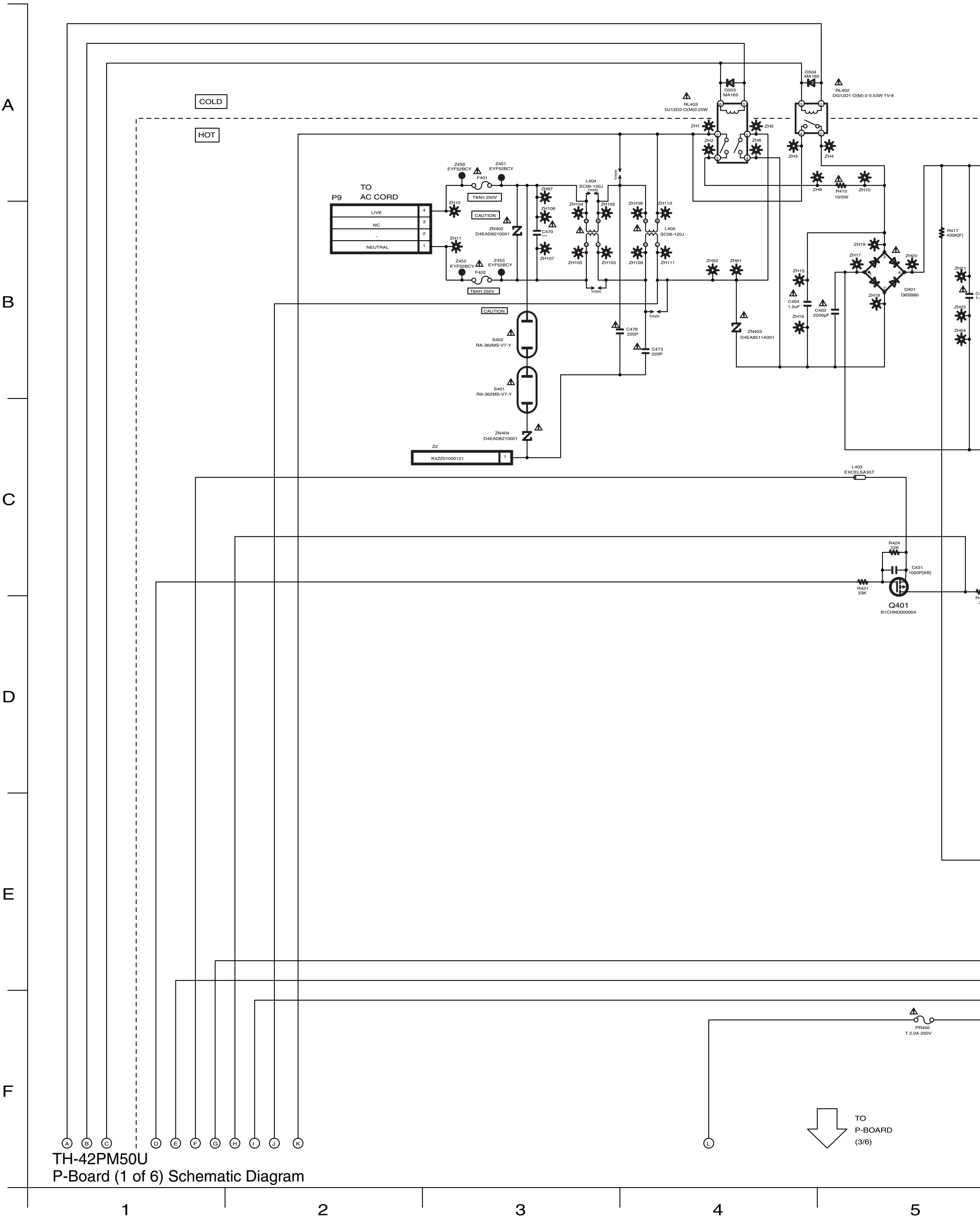

P
POWER SUPPLY
350V
D417
D419
D420
PR401
T401
Q404
Q406
L402
D415
PR402
C405
Q401
VCC
MOS DRIVE
CURR DET
CURR COMP
IC406
POWER FACTOR CONTROL
L403
IC5
Ex.
Q420
Q422
Q407
HOT
COLD
R443
PFC
Q418
Q421
TO AC CORD
P9
LIVE
NEWTRAL
F402
F401
L404
L405
IC402
COMPARATOR
IC404
PHOTO COUPLER
IC403
PHOTO COUPLER
Q417
IC411
COMPARATOR
Q403
IC401
PHOTO COUPLER
D401
D404
RL403
RL402
D462
Q423
Q435
R903-R906
R928-R931
Q424,Q434.Q436
T410
D567
PR501
D511
Q511
Q512
IC502
RESET
IC407
DC-DC CONVERTER
Q431
Q439
D509
D510
D555
Q535
Q501
D444
R455,R474
R479,R481
R483,R488
Q430,Q432
Q433,Q441
Q502
Q503
IC408
PHOTO COUPLER
IC504
STB 5V
REG
Q440
IC412
PHOTO COUPLER
Q415
Q438
Q565
Q567
Q414
IC409
PHOTO COUPLER
HOT
COLD

TH-42PM50U
P-Board Block Diagram


HOT
COLD
T404
D539
D531
D532
D534
D536
Q527
DC75V
D542
D544
D545
IC512
AVR DC75V
R665
Vda
Q412
Q408
Q413
Q409
PR402
C405
T402
T407
D568
DC15V
D535
DC12V
PR509
D521
D530
IC520
Ex.I/O
Q516
Q510
Q509
R661
Vlow
Q541
Q508
COLD
IC404
PHOTO COUPLER
IC403
PHOTO COUPLER
IC401
PHOTO COUPLER
Q520,Q517
IC509
AC-DC CONVERTER
VCC
GD
ZCD
INV
VFF
CB
Q507
Q506
PR601
T601
IC506
SHUNT REGULATOR
REG
Q505
R628
Vsus
R671
Csus
IC505
PHOTO COUPLER
Q530
Q525
Q536
IC501
POWER MCA
VDD
VSS
XIN
XOUT
RESET
P21
P20
D5
D4
D3
D2
P30
P31
P00
P01
P02
P03
P10
P11
P12
P13
D0
D1
X501 4NHz
D567
IC502
RESET
D555
Q535
Q501
Q502
Q503
Q561
Q559
Q552
Q537
Q538
Q557
Q550
Q551
IC507
REG
REGULATOR
PR503
Q544
Q554
Q553
Q518
Q519
Q560
Q558
Q565
Q567
Q564
Q562
IC503
STB 14V
P12
TO SS12
Vda
+15V
STB12V
STB_PS
P23
TO SC23
+15V
+15V
P11
TO SS11
Vsus
Vsus
P2
TO SC2
Vsus
Vsus
P5
TO PB5
+12V
+12V
+15V
+12Vs
+12Vs
+12Vs
P30
NO USE
+15V
+5V
FAN CONT
FAN SOS
P25
TO D25
12V
12V
FAN CONT
+5V
+5V
STB5V
F STBY ON
FAN SOS
ECO_ON
PANEL MAIN ON
PS SOS
ALL OFF
P10
TO PA10
F STB 14V
F STB 14V
F STB 14V

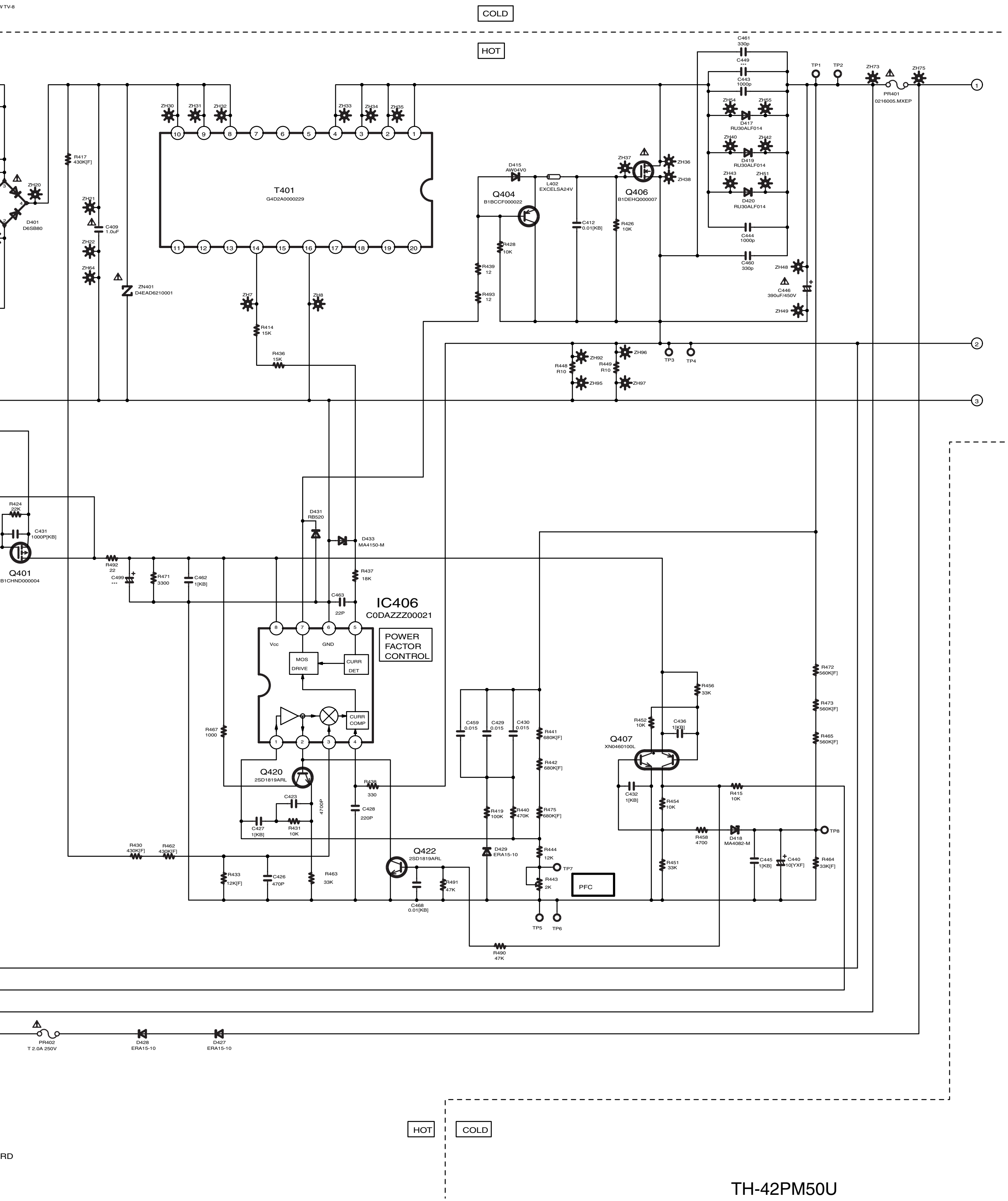
TH-42PM50U
P-Board Block Diagram

13.4. P-Board (1 of 6) Schematic Diagram


A
B
C
D
E
F
1
2
3
4
5
COLD
HOT
P9
TO
AC CORD
LIVE
NC
-
NEUTRAL
4
3
2
1
Z450
EYF52BCY
Z451
EYF52BCY
F401
T8AH 250V
Z452
EYF52BCY
Z453
EYF52BCY
F402
T8AH 250V
ZH12
ZH11
CAUTION
ZN402
D4EAD6210001
ZH67
ZH106
C470
***
ZH107
L404
SC06-120J
1mm
ZH104
ZH102
ZH105
ZH103
ZH108
ZH110
L405
SC06-120J
ZH109
ZH111
1mm
1mm
1mm
CAUTION
S402
RA-362MS-V7-Y
S401
RA-362MS-V7-Y
ZN404
D4EAD6210001
Z2
K4ZZ01000121
1
C476
220P
C473
220P
RL403
DJ12D2-O(M)0.25W
D503
MA165
ZH1
ZH2
ZH5
ZH6
D504
MA165
RL402
DG12D1-O(M)-2 0.53W TV-8
ZH3
ZH4
ZH9
R410
10/5W
ZH10
ZH50
ZH61
ZN403
D4EA8511A001
ZH15
C404
1.0uF
ZH16
C403
2200pF
ZH19
ZH17
ZH20
ZH18
D401
D6SB80
R417
430K[F]
ZH21
ZH22
ZH64
L403
EXCELSA35T
R424
22K
C431
1000P[KB]
R421
33K
Q401
B1CHND000004
PR402
T 2.0A 250V
A
B
C
D
E
F
G
H
I
J
K
L
TO
P-BOARD
(3/6)

TH-42PM50U
P-Board (1 of 6) Schematic Diagram

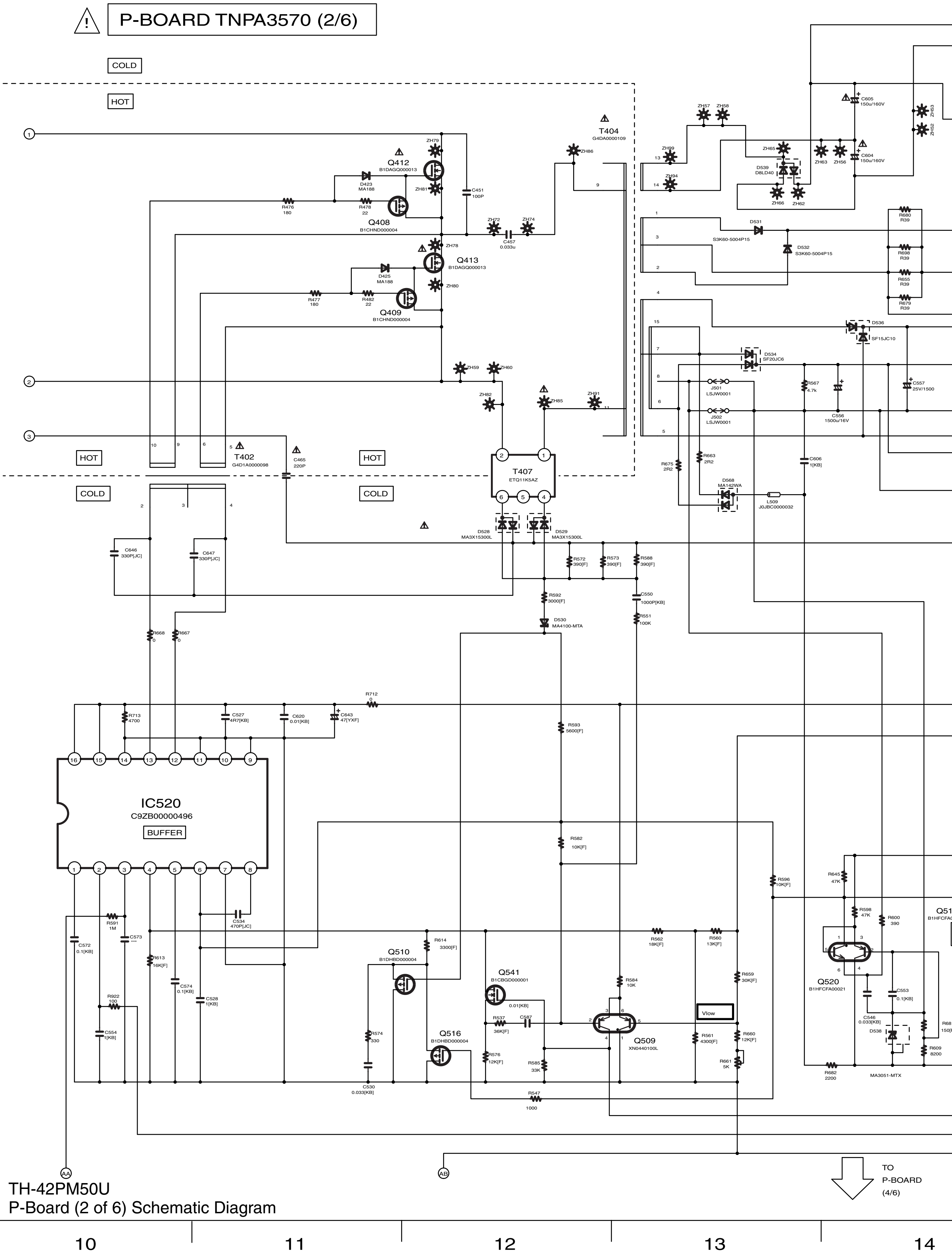
⚠ P-BOARD TNPA3570 (1/6)

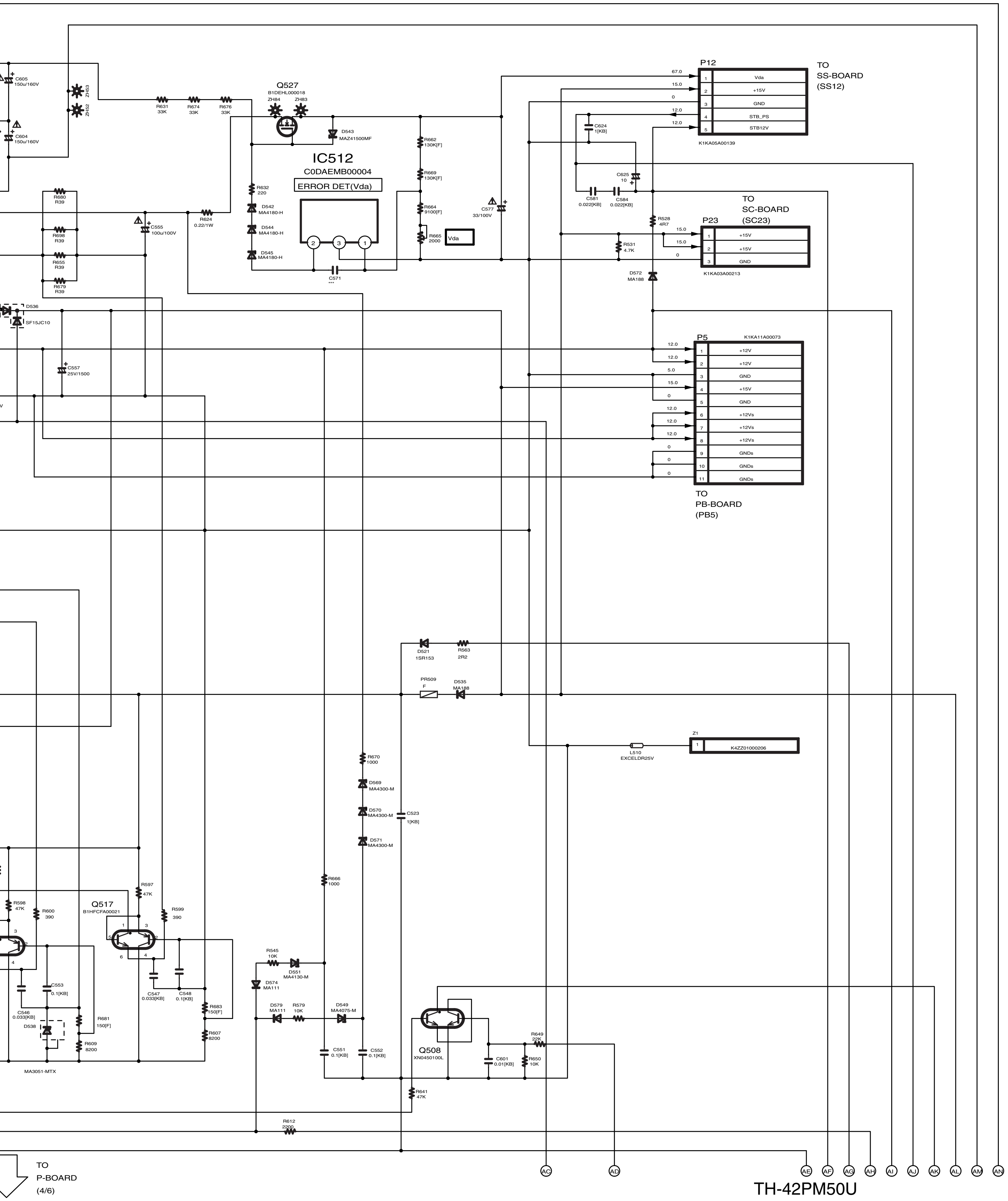

TV-8
COLD
HOT
C461 330p
C449
C443 1000p
ZH54
ZH55
D417 RU30ALF014
ZH40
ZH42
D419 RU30ALF014
ZH43
ZH51
D420 RU30ALF014
C444 1000p
C460 330p
TP1
TP2
ZH73
ZH75
PR401 0216005.MXEP
ZH30
ZH31
ZH32
ZH33
ZH34
ZH35
T401
G4D2A0000229
R417 430K[F]
ZH20
D401 D6SB80
ZH21
C409 1.0uF
ZH22
ZH64
ZN401 D4EAD6210001
ZH7
ZH8
R414 15K
R436 15K
D415 AW04V0
L402 EXCELSA24V
Q404
B1BCCF000022
R428 10K
R439 12
R493 12
C412 0.01[KB]
R426 10K
ZH37
Q406
B1DEHQ000007
ZH36
ZH38
ZH48
C446 390uF/450V
ZH49
R448 R10
ZH92
R449 R10
ZH96
ZH95
ZH97
TP3
TP4
R424 22K
C431 1000P[KB]
Q401
B1CHND000004
R492 22
C499
R471 3300
C462 1[KB]
D431 RB520
D433 MA4150-M
R437 18K
C463 22P
IC406
C0DAZZZ00021
POWER FACTOR CONTROL
Vcc
GND
MOS DRIVE
CURR DET
CURR COMP
R467 1000
Q420
2SD1819ARL
C423
4700P
C427 1[KB]
R431 10K
R438 330
C428 220P
R430 430K[F]
R462 430K[F]
R433 12K[F]
C426 470P
R463 33K
Q422
2SD1819ARL
C468 0.01[KB]
R491 47K
C459 0.015
C429 0.015
C430 0.015
R441 680K[F]
R442 680K[F]
R419 100K
R440 470K
D429 ERA15-10
R475 680K[F]
R444 12K
TP7
R443 2K
PFC
TP5
TP6
R490 47K
R456 33K
R452 10K
C436 1[KB]
Q407
XN0460100L
C432 1[KB]
R454 10K
R415 10K
R458 4700
D418 MA4082-M
R451 33K
C445 1[KB]
C440 10[YXF]
R464 33K[F]
TP8
R472 560K[F]
R473 560K[F]
R465 560K[F]
PR402 T 2.0A 250V
D428 ERA15-10
D427 ERA15-10
RD
HOT
COLD
1
2
3

TH-42PM50U
P-Board (1 of 6) Schematic Diagram

5 6 7 8 9

13.5. P-Board (2 of 6) Schematic Diagram

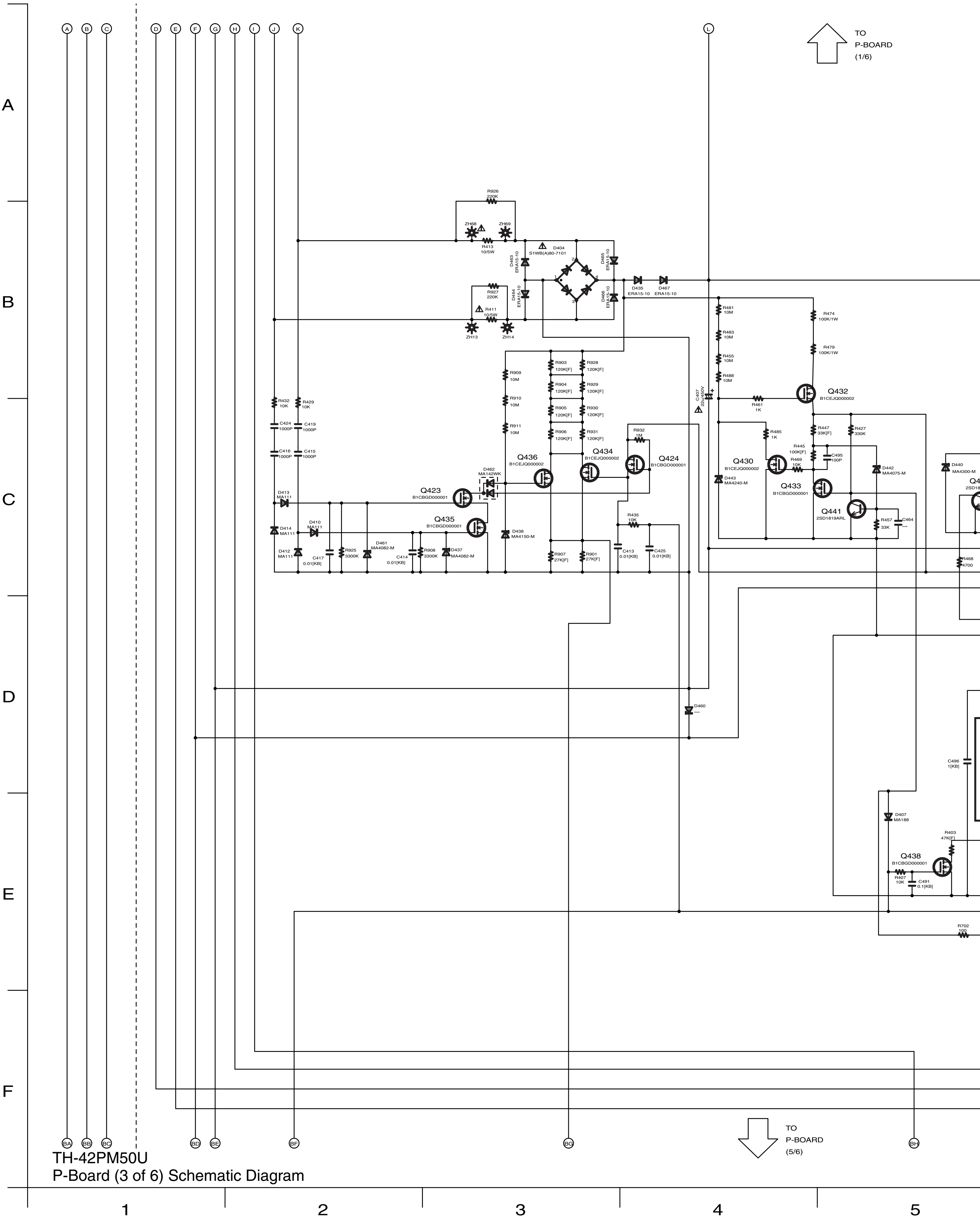

P-BOARD TNPA3570 (2/6)
COLD
HOT
1
2
3
T404
G4DA0000109
ZH79
Q412
B1DAGQ000013
D423
MA188
ZH81
C451
100P
R476
180
R478
22
Q408
B1CHND000004
ZH72
ZH74
C457
0.033u
ZH78
Q413
B1DAGQ000013
D425
MA188
ZH80
R477
180
R482
22
Q409
B1CHND000004
ZH86
ZH59
ZH60
ZH82
ZH85
ZH91
T402
G4D1A0000098
C465
220P
T407
ETQ11K5AZ
D528
MA3X15300L
D529
MA3X15300L
C646
330P[JC]
C647
330P[JC]
R572
390[F]
R573
390[F]
R588
390[F]
R592
3000[F]
C550
1000P[KB]
R551
100K
D530
MA4100-MTA
R668
0
R667
0
R712
0
R713
4700
C527
4R7[KB]
C620
0.01[KB]
C643
47[YXF]
R593
5600[F]
IC520
C9ZB00000496
BUFFER
R582
10K[F]
R596
10K[F]
R591
1M
C573
C572
0.1[KB]
C534
470P[JC]
R613
16K[F]
C574
0.1[KB]
C528
1[KB]
R922
100
C554
1[KB]
R614
3300[F]
Q510
B1DHBD000004
R574
330
C530
0.033[KB]
Q516
B1DHBD000004
Q541
B1CBGD000001
0.01[KB]
R537
36K[F]
C587
R576
12K[F]
R585
33K
R547
1000
R584
10K
Q509
XN0440100L
R562
18K[F]
R560
13K[F]
R659
30K[F]
Vlow
R561
4300[F]
R660
12K[F]
R661
5K
ZH57
ZH58
ZH99
ZH94
ZH65
D539
D8LD40
ZH66
ZH62
ZH63
ZH56
C605
150u/160V
C604
150u/160V
ZH53
ZH52
D531
S3K60-5004P15
D532
S3K60-5004P15
R680
R39
R698
R39
R655
R39
R679
R39
D536
SF15JC10
D534
SF20JC6
J501
LSJW0001
J502
LSJW0001
R567
4.7k
C556
1500u/16V
C557
25V/1500
R663
2R2
R675
2R2
C606
1[KB]
D568
MA142WA
L509
J0JBC0000032
R645
47K
R598
47K
R600
390
Q520
B1HFCFA00021
C553
0.1[KB]
C546
0.033[KB]
D538
MA3051-MTX
R609
8200
R682
2200
AA
AB
TO
P-BOARD
(4/6)
10
11
12
13
14


C605
150u/160V
C604
150u/160V
ZH53
ZH52
R631
33K
R674
33K
R676
33K
Q527
B1DEHL000018
ZH84
ZH83
D543
MAZ41500MF
R662
130K[F]
IC512
C0DAEMB00004
ERROR DET(Vda)
R669
130K[F]
R664
9100[F]
R665
2000
Vda
C577
33/100V
R632
220
D542
MA4180-H
D544
MA4180-H
D545
MA4180-H
C571
R680
R39
R698
R39
R655
R39
R679
R39
R624
0.22/1W
C555
100u/100V
D536
SF15JC10
C557
25V/1500
P12
TO
SS-BOARD
(SS12)
67.0
15.0
0
12.0
12.0
Vda
+15V
GND
STB_PS
STB12V
K1KA05A00139
C624
1[KB]
C625
10
C581
0.022[KB]
C584
0.022[KB]
R528
4R7
TO
SC-BOARD
(SC23)
P23
15.0
15.0
0
+15V
+15V
GND
K1KA03A00213
R531
4.7K
D572
MA188
P5
K1KA11A00073
12.0
12.0
5.0
15.0
0
12.0
12.0
12.0
0
0
0
+12V
+12V
GND
+15V
GND
+12Vs
+12Vs
+12Vs
GNDs
GNDs
GNDs
TO
PB-BOARD
(PB5)
D521
1SR153
R563
2R2
PR509
F
D535
MA188
Z1
K4ZZ01000206
L510
EXCELDR25V
R670
1000
D569
MA4300-M
D570
MA4300-M
C523
1[KB]
D571
MA4300-M
R666
1000
R597
47K
Q517
B1HFCFA00021
R598
47K
R600
390
R599
390
C553
0.1[KB]
C546
0.033[KB]
D538
R681
150[F]
R609
8200
MA3051-MTX
C547
0.033[KB]
C548
0.1[KB]
R683
150[F]
R607
8200
R545
10K
D551
MA4130-M
D574
MA111
D579
MA111
R579
10K
D549
MA4075-M
C551
0.1[KB]
C552
0.1[KB]
Q508
XN0450100L
R649
22K
C601
0.01[KB]
R650
10K
R641
47K
R612
2200
TO
P-BOARD
(4/6)
AC
AD
AE
AF
AG
AH
AI
AJ
AK
AL
AM
AN

TH-42PM50U
P-Board (2 of 6) Schematic Diagram

14 15 16 17 18

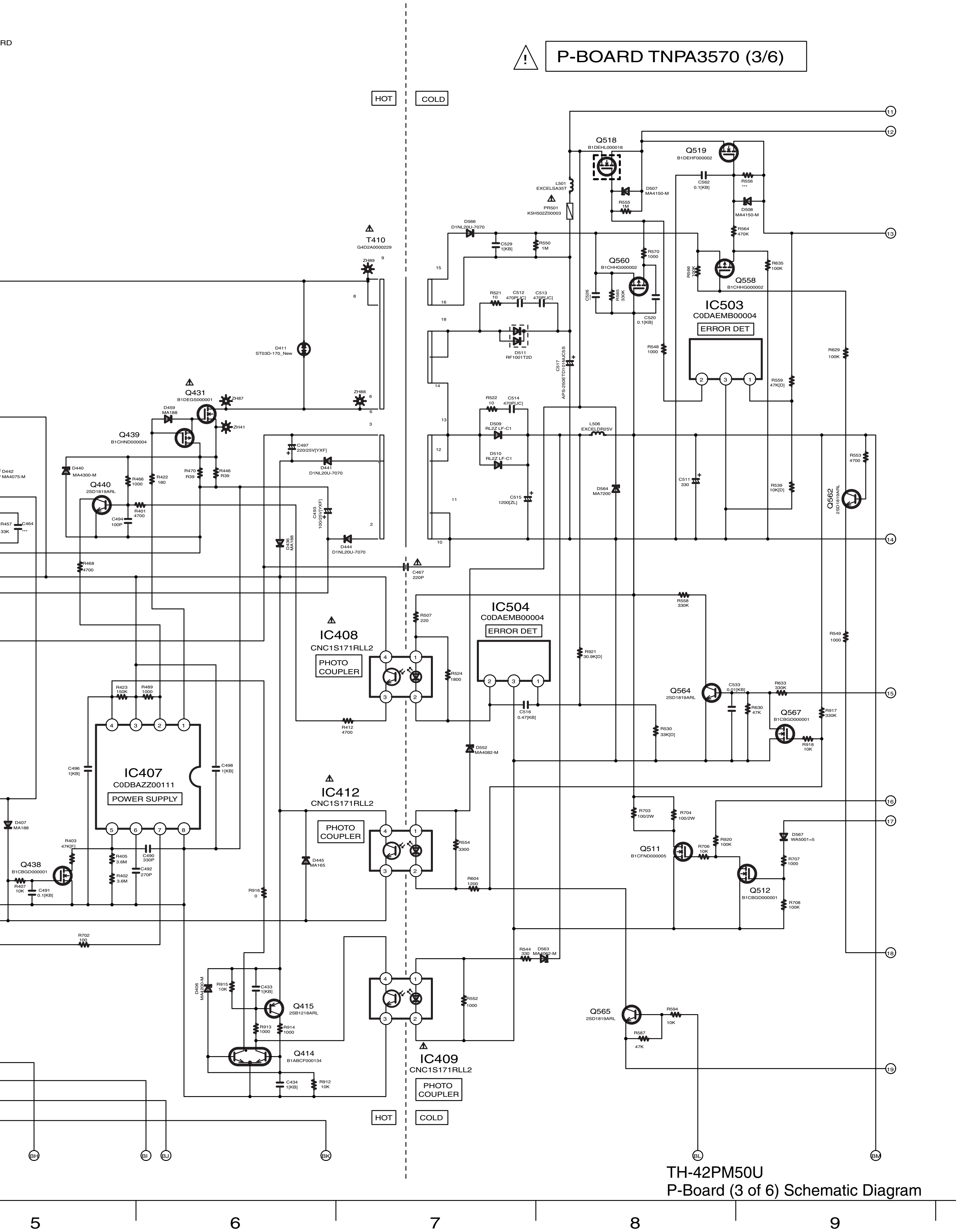
13.6. P-Board (3 of 6) Schematic Diagram


A
B
C
D
E
F
1
2
3
4
5
A B C D E F G H I J K L
BA BB BC BD BE BF BG BH
TO
P-BOARD
(1/6)
TO
P-BOARD
(5/6)
R926
220K
ZH68
ZH69
R413
10/5W
D404
S1WB(A)80-7101
D463
ERA15-10
D464
ERA15-10
D465
ERA15-10
D466
ERA15-10
D435
ERA15-10
D467
ERA15-10
R927
220K
R411
10/5W
ZH13
ZH14
R481
10M
R483
10M
R455
10M
R488
10M
C407
22μ/450V
R474
100K/1W
R479
100K/1W
Q432
B1CEJQ000002
R461
1K
R909
10M
R910
10M
R911
10M
R903
120K[F]
R904
120K[F]
R905
120K[F]
R906
120K[F]
R928
120K[F]
R929
120K[F]
R930
120K[F]
R931
120K[F]
R932
1M
R432
10K
R429
10K
C424
1000P
C419
1000P
C416
1000P
C415
1000P
Q436
B1CEJQ000002
Q434
B1CEJQ000002
Q424
B1CBGD000001
D462
MA142WK
Q423
B1CBGD000001
Q435
B1CBGD000001
D413
MA111
D414
MA111
D410
MA111
D412
MA111
C417
0.01[KB]
R925
3300K
D461
MA4082-M
C414
0.01[KB]
R908
3300K
D437
MA4082-M
D438
MA4150-M
R907
27K[F]
R901
27K[F]
R435
10K
C413
0.01[KB]
C425
0.01[KB]
R485
1K
R447
33K[F]
R427
330K
R445
100K[F]
R469
10K
C495
100P
Q430
B1CEJQ000002
D443
MA4240-M
Q433
B1CBGD000001
D442
MA4075-M
D440
MA4300-M
Q441
2SD1819ARL
R457
33K
C464

R468
4700
D460

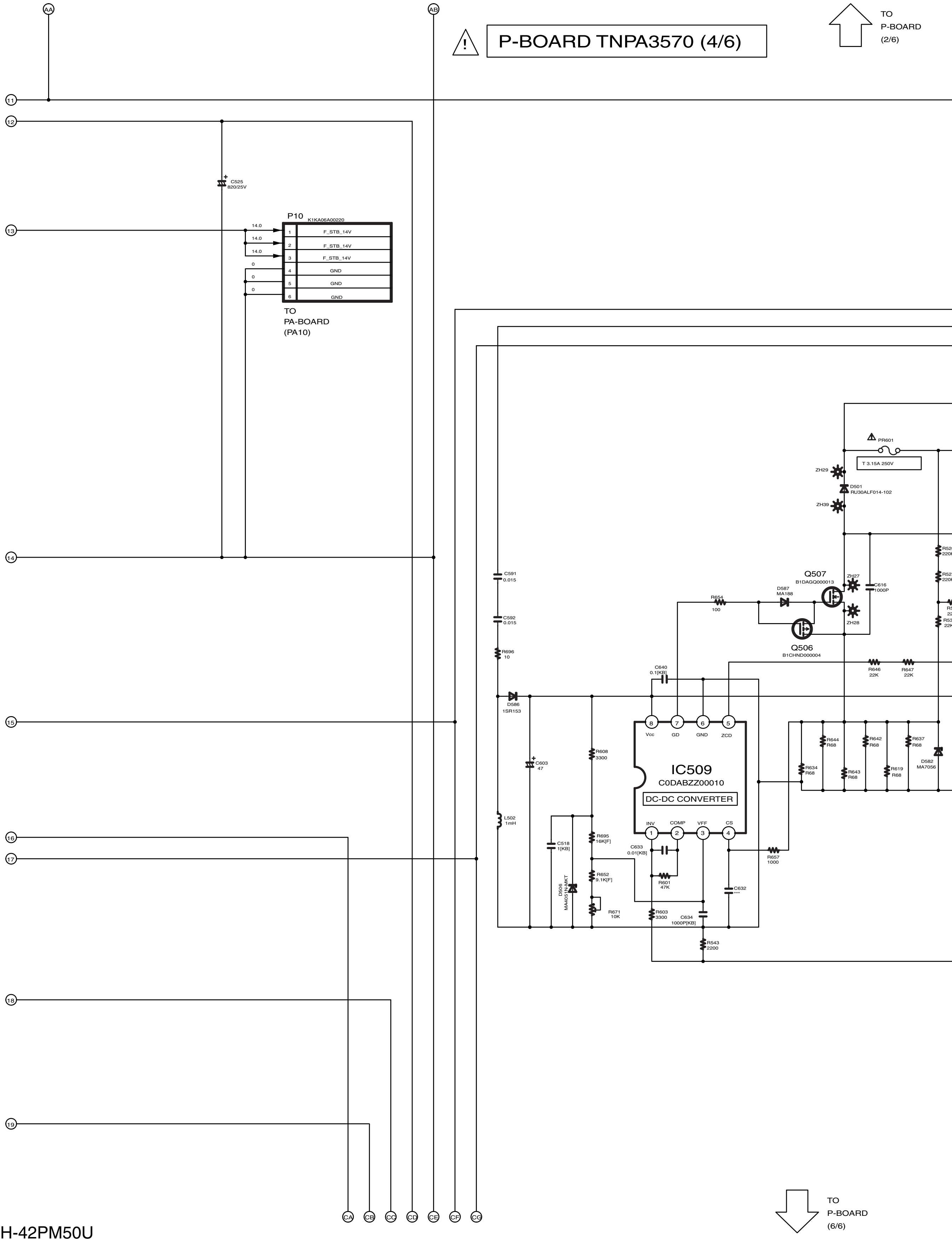
C496
1[KB]
D407
MA188
R403
47K[F]
Q438
B1CBGD000001
R407
10K
C491
0.1[KB]
R702
100

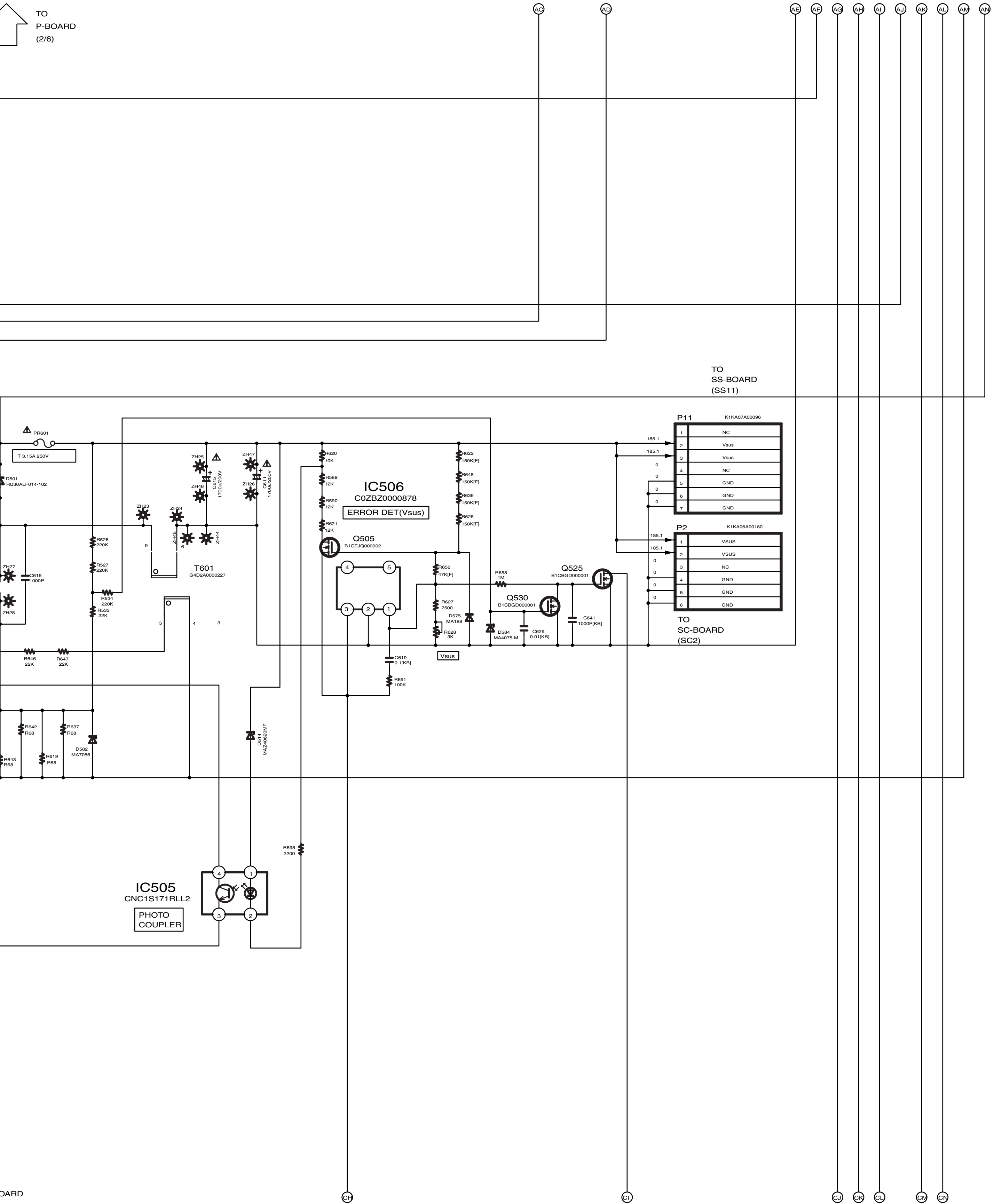
TH-42PM50U
P-Board (3 of 6) Schematic Diagram


RD
P-BOARD TNPA3570 (3/6)
HOT
COLD
T410
G4D2A0000229
D411
ST03D-170_New
Q431
B1DEGS000001
Q439
B1CHND000004
Q440
2SD1819ARL
D440
MA4300-M
D442
MA4075-M
D441
D1NL20U-7070
D444
D1NL20U-7070
D436
MA188
C467
220P
IC408
CNC1S171RLL2
PHOTO COUPLER
IC407
C0DBAZZ00111
POWER SUPPLY
Q438
B1CBGD000001
IC412
CNC1S171RLL2
PHOTO COUPLER
Q415
2SB1218ARL
Q414
B1ABCF000134
IC409
CNC1S171RLL2
PHOTO COUPLER
IC504
C0DAEMB00004
ERROR DET
IC503
C0DAEMB00004
ERROR DET
Q518
B1DEHL000018
Q519
B1DEHF000002
Q560
B1CHHG000002
Q558
B1CHHG000002
L501
EXCELSA35T
PR501
K5H502Z00003
D566
D1NL20U-7070
D511
RF1001T2D
D509
RL2Z LF-C1
D510
RL2Z LF-C1
L506
EXCELDR25V
D564
MA7200
Q562
2SD1819ARL
Q564
2SD1819ARL
Q567
B1CBGD000001
D552
MA4082-M
Q511
B1CFND000005
Q512
B1CBGD000001
D567
WA5001=5
D563
MA4062-M
Q565
2SD1819ARL
11
12
13
14
15
16
17
18
19
BH
BI
BJ
BK
BL
BM
5
6
7
8
9

TH-42PM50U
P-Board (3 of 6) Schematic Diagram

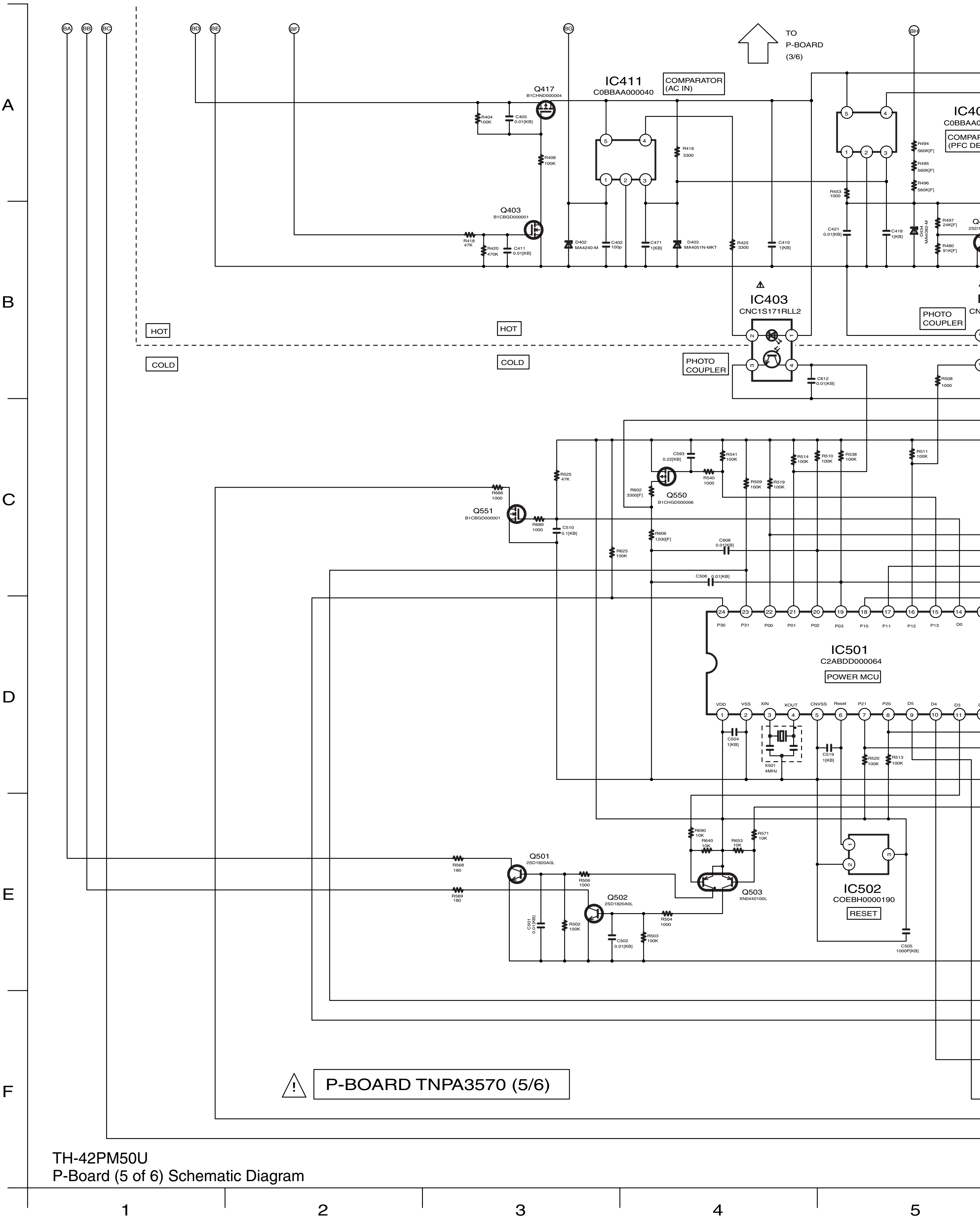
13.7. P-Board (4 of 6) Schematic Diagram


AA
AB
P-BOARD TNPA3570 (4/6)
TO
P-BOARD
(2/6)
11
12
13
14
15
16
17
18
19
C525
820/25V
P10
K1KA06A00220
14.0
14.0
14.0
0
0
0
1 F_STB_14V
2 F_STB_14V
3 F_STB_14V
4 GND
5 GND
6 GND
TO
PA-BOARD
(PA10)
PR601
T 3.15A 250V
ZH29
D501
RU30ALF014-102
ZH39
C591
0.015
C592
0.015
R696
10
Q507
B1DAGQ000013
D587
MA188
R654
100
ZH27
ZH28
C616
1000P
Q506
B1CHND000004
R646
22K
R647
22K
C640
0.1[KB]
D586
1SR153
C603
47
R608
3300
IC509
C0DABZZ00010
DC-DC CONVERTER
8 Vcc
7 GD
6 GND
5 ZCD
1 INV
2 COMP
3 VFF
4 CS
L502
1mH
C518
1[KB]
D506
MA4051N-MKT
R695
16K[F]
R652
9.1K[F]
R671
10K
C633
0.01[KB]
R601
47K
R603
3300
C634
1000P[KB]
R543
2200
C632
***
R657
1000
R644
R68
R642
R68
R637
R68
R634
R68
R643
R68
R619
R68
D582
MA7056
CA
CB
CC
CD
CE
CF
CG
TO
P-BOARD
(6/6)

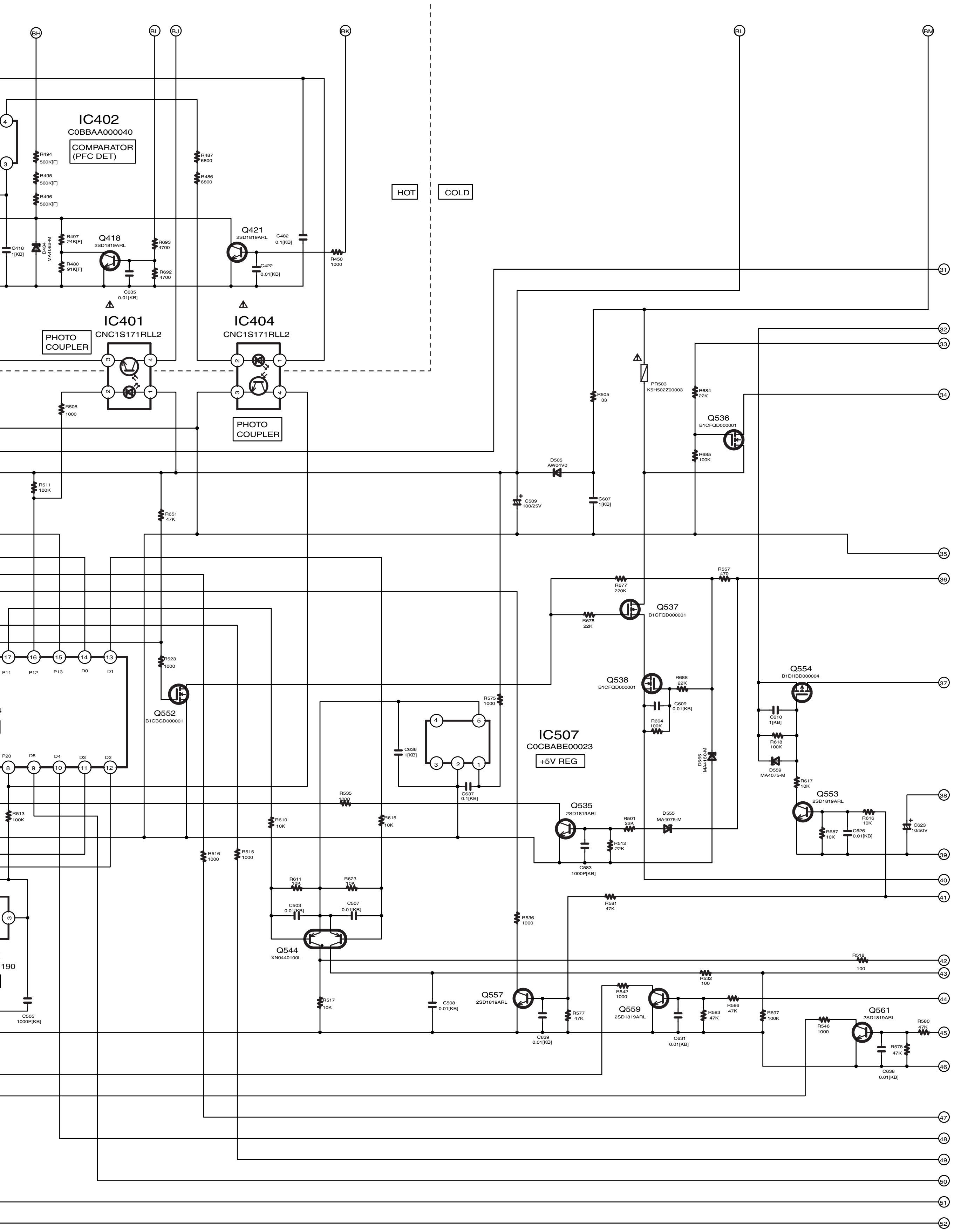

TO
P-BOARD
(2/6)
AC
AD
AE
AF
AG
AH
AI
AJ
AK
AL
AM
AN
TO
SS-BOARD
(SS11)
PR601
T 3.15A 250V
D501
RU30ALF014-102
ZH25
ZH46
C615
1700u/200V
ZH47
ZH26
C611
1700u/200V
ZH23
ZH24
ZH45
ZH44
9
6
T601
G4D2A0000227
5
4
3
ZH27
ZH28
C616
1000P
R526
220K
R527
220K
R534
220K
R533
22K
R646
22K
R647
22K
R642
R68
R637
R68
R643
R68
R619
R68
D582
MA7056
D514
MAZ40620MF
R595
2200
IC505
CNC1S171RLL2
PHOTO
COUPLER
4
1
3
2
R620
10K
R589
12K
R590
12K
R621
12K
IC506
C0ZBZ0000878
ERROR DET(Vsus)
Q505
B1CEJQ000002
4
5
3
2
1
R622
150K[F]
R648
150K[F]
R636
150K[F]
R626
150K[F]
R656
47K[F]
R627
7500
D575
MA188
R628
3K
Vsus
C619
0.1[KB]
R691
100K
R658
1M
Q530
B1CBGD000001
D584
MA4075-M
C629
0.01[KB]
Q525
B1CBGD000001
C641
1000P[KB]
P11
K1KA07A00096
185.1
185.1
0
0
0
0
1 NC
2 Vsus
3 Vsus
4 NC
5 GND
6 GND
7 GND
P2
K1KA06A00180
185.1
185.1
0
0
0
0
1 VSUS
2 VSUS
3 NC
4 GND
5 GND
6 GND
TO
SC-BOARD
(SC2)
OARD
)
CH
CI
CJ
CK
CL
CM
CN
14
15
16
17
18

TH-42PM50U
P-Board (4 of 6) Schematic Diagram

13.8. P-Board (5 of 6) Schematic Diagram

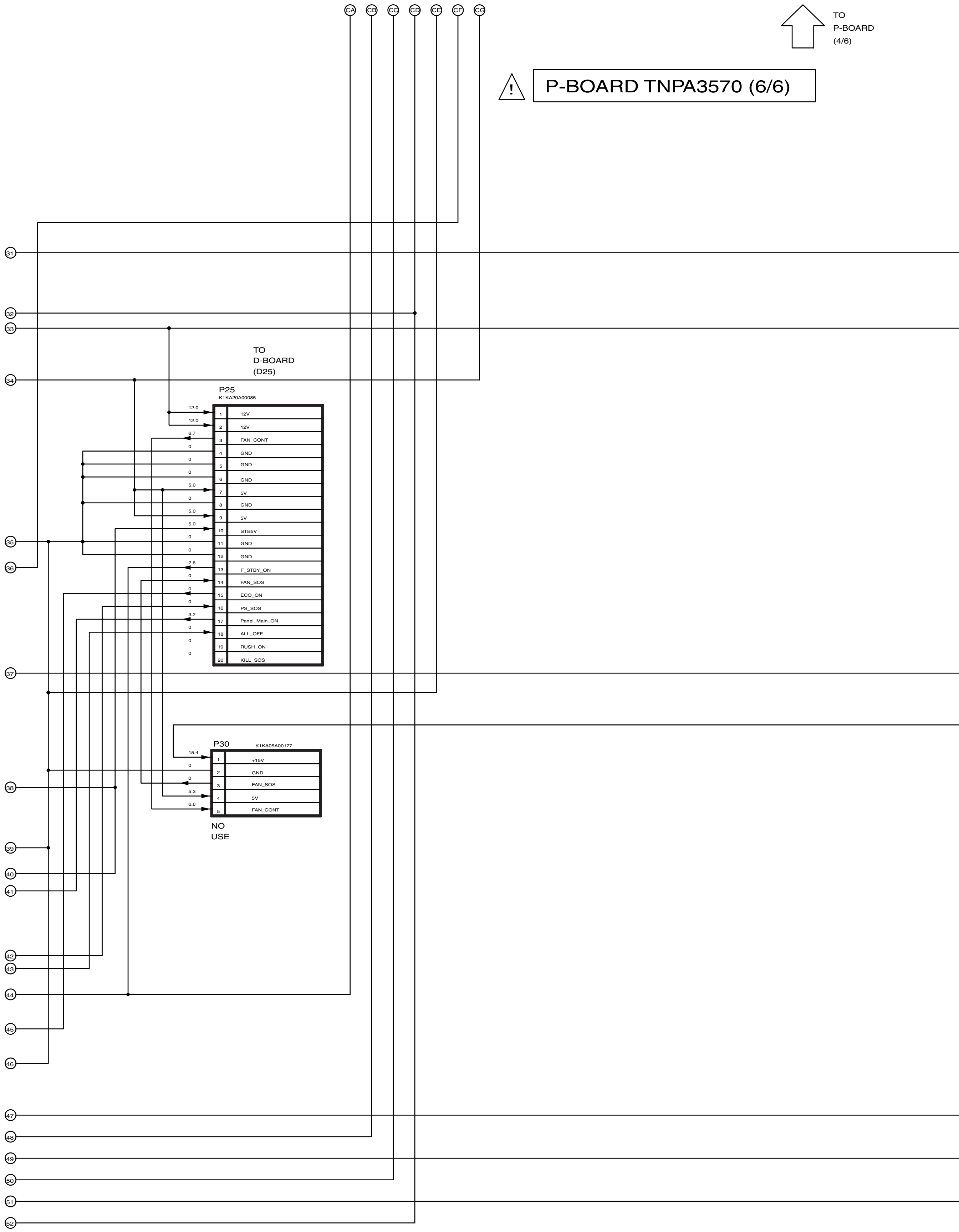

A
B
C
D
E
F
1
2
3
4
5
BA
BB
BC
BD
BE
BF
BG
BH
TO
P-BOARD
(3/6)
IC411
C0BBAA000040
COMPARATOR
(AC IN)
Q417
B1CHND000004
R404
100K
C405
0.01[KB]
R408
100K
R416
3300
Q403
B1CBGD000001
R418
47K
R420
470K
C411
0.01[KB]
D402
MA4240-M
C402
100p
C471
1[KB]
D403
MA4051N-MKT
R425
3300
C410
1[KB]
R453
1000
C421
0.01[KB]
C418
1[KB]
D434
MA4082-M
R494
560K[F]
R495
560K[F]
R496
560K[F]
R497
24K[F]
R480
91K[F]
COMPAR
(PFC DE
C0BBAA0
IC40
HOT
COLD
IC403
CNC1S171RLL2
PHOTO
COUPLER
C612
0.01[KB]
R508
1000
C593
0.22[KB]
R541
100K
R514
100K
R510
100K
R538
100K
R511
100K
R525
47K
R540
1000
R509
100K
R519
100K
R602
3300[F]
Q550
B1CHGD000006
R686
1000
Q551
B1CBGD000001
R689
1000
C510
0.1[KB]
R606
1200[F]
C608
0.01[KB]
R625
100K
C506
0.01[KB]
IC501
C2ABDD000064
POWER MCU
P30
P31
P00
P01
P02
P03
P10
P11
P12
P13
D0
VDD
VSS
XIN
XOUT
CNVSS
Reset
P21
P20
D5
D4
D3
C504
1[KB]
X501
4MHz
C519
1[KB]
R520
100K
R513
100K
R690
10K
R640
10K
R653
10K
R571
10K
Q501
2SD1820A0L
R568
180
R569
180
R506
1000
Q502
2SD1820A0L
C501
0.01[KB]
R502
100K
C502
0.01[KB]
R504
1000
R503
100K
Q503
XN0440100L
IC502
COEBH0000190
RESET
C505
1000P[KB]
P-BOARD TNPA3570 (5/6)

TH-42PM50U
P-Board (5 of 6) Schematic Diagram


BH
BI
BJ
BK
BL
BM
IC402
C0BBAA000040
COMPARATOR (PFC DET)
R494 560K[F]
R495 560K[F]
R496 560K[F]
R487 6800
R486 6800
HOT
COLD
Q421
2SD1819ARL
C482 0.1[KB]
R497 24K[F]
Q418
2SD1819ARL
R693 4700
C418 1[KB]
D434 MA4082-M
R480 91K[F]
C635 0.01[KB]
R692 4700
C422 0.01[KB]
R450 1000
IC401
CNC1S171RLL2
IC404
CNC1S171RLL2
PHOTO COUPLER
PHOTO COUPLER
R508 1000
R511 100K
R651 47K
PR503
K5H502Z00003
R505 33
R684 22K
Q536
B1CFQD000001
R685 100K
D505
AW04V0
C509 100/25V
C607 1[KB]
R557 470
R677 220K
Q537
B1CFQD000001
R678 22K
P11
P12
P13
D0
D1
P20
D5
D4
D3
D2
R523 1000
Q552
B1CBGD000001
Q538
B1CFQD000001
R688 22K
C609 0.01[KB]
R694 100K
R575 1000
C636 1[KB]
IC507
C0CBABE00023
+5V REG
C637 0.1[KB]
D565 MA4165-M
Q554
B1DHBD000004
C610 1[KB]
R618 100K
D559 MA4075-M
R617 10K
Q553
2SD1819ARL
R616 10K
R687 10K
C626 0.01[KB]
C623 10/50V
R513 100K
R535 1000
R610 10K
R615 10K
Q535
2SD1819ARL
R501 22K
D555 MA4075-M
R512 22K
C583 1000P[KB]
R516 1000
R515 1000
R611 10K
R623 10K
C503 0.01[KB]
C507 0.01[KB]
R581 47K
R536 1000
Q544
XN0440100L
190
R518 100
R532 100
C505 1000P[KB]
R517 10K
C508 0.01[KB]
Q557
2SD1819ARL
R542 1000
Q559
2SD1819ARL
R586 47K
R577 47K
C639 0.01[KB]
R583 47K
C631 0.01[KB]
R697 100K
R546 1000
Q561
2SD1819ARL
R580 47K
R578 47K
C638 0.01[KB]
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
5
6
7
8
9

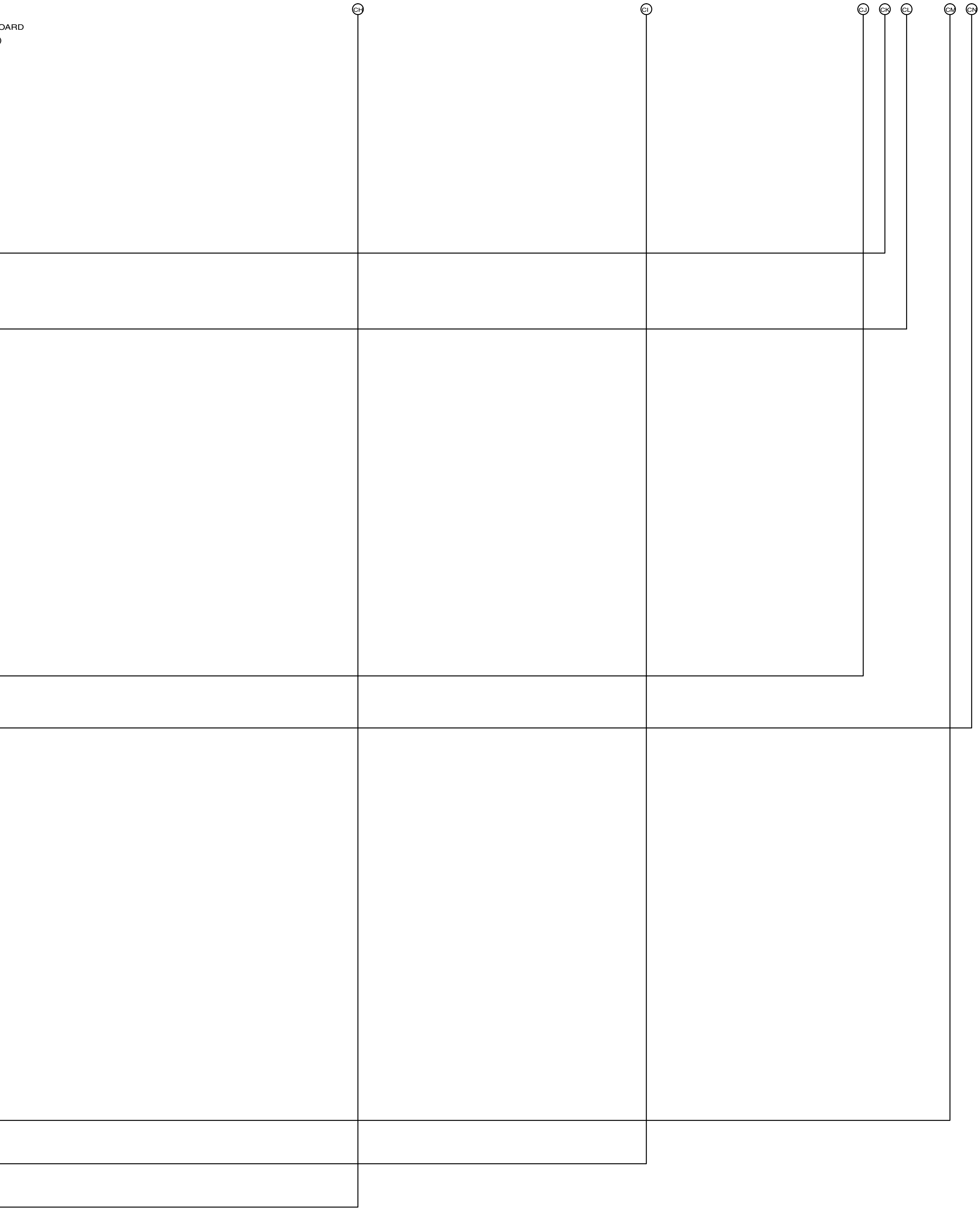
TH-42PM50U
P-Board (5 of 6) Schematic Diagram

13.9. P-Board (6 of 6) Schematic Diagram


CA
CB
CC
CD
CE
CF
CG
TO
P-BOARD
(4/6)
!
P-BOARD TNPA3570 (6/6)
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
TO
D-BOARD
(D25)
P25
K1KA20A00085
12.0
12.0
6.7
0
0
0
5.0
0
5.0
5.0
0
0
2.6
0
0
0
3.2
0
0
0
1 12V
2 12V
3 FAN_CONT
4 GND
5 GND
6 GND
7 5V
8 GND
9 5V
10 STB5V
11 GND
12 GND
13 F_STBY_ON
14 FAN_SOS
15 ECO_ON
16 PS_SOS
17 Panel_Main_ON
18 ALL_OFF
19 RUSH_ON
20 KILL_SOS
P30
K1KA05A00177
15.4
0
0
5.3
6.6
1 +15V
2 GND
3 FAN_SOS
4 5V
5 FAN_CONT
NO
USE

TH-42PM50U
P-Board (6 of 6) Schematic Diagram

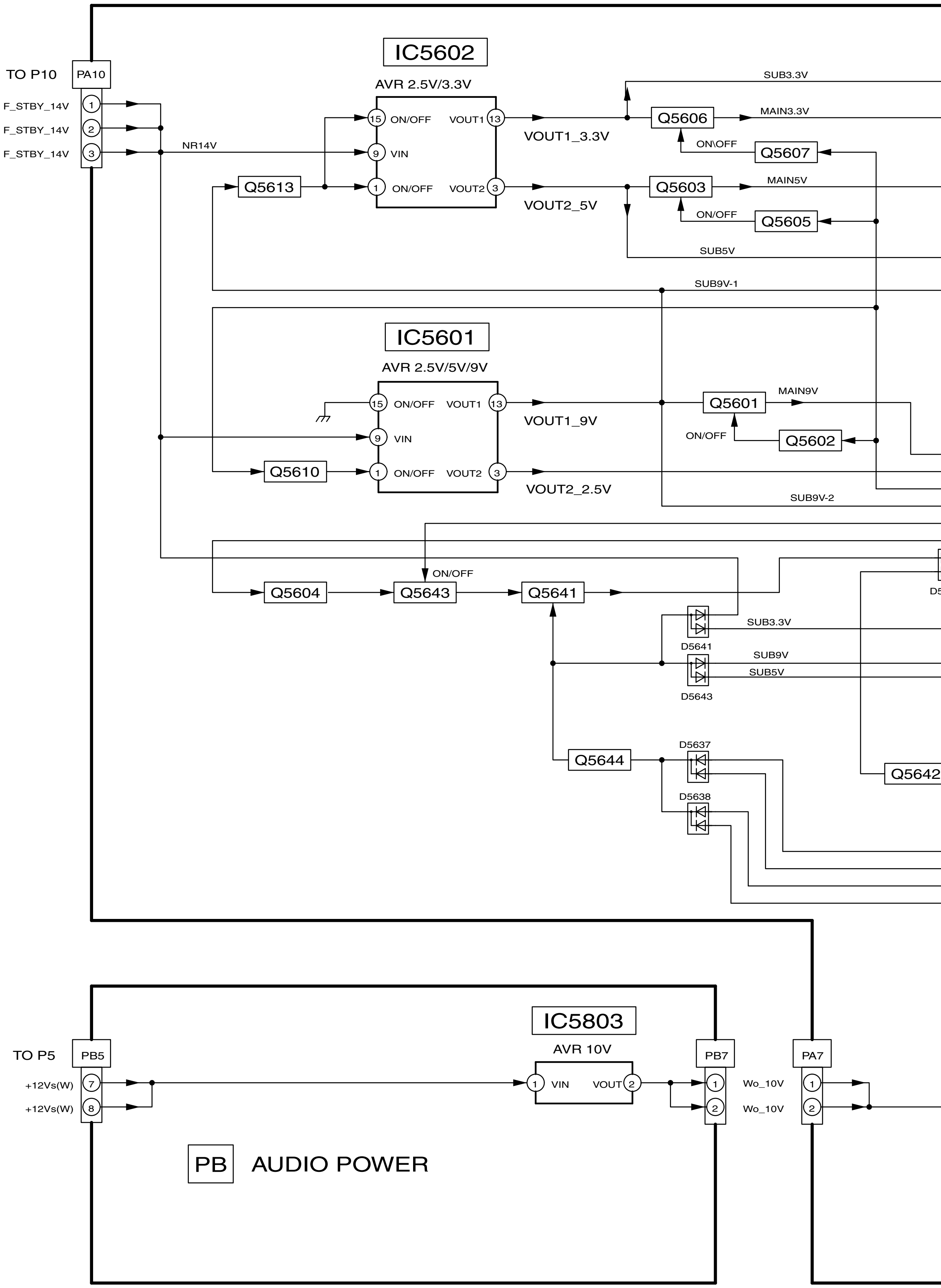
10 11 12 13 14


OARD
)
CH
CI
CJ
CK
CL
CM
CN

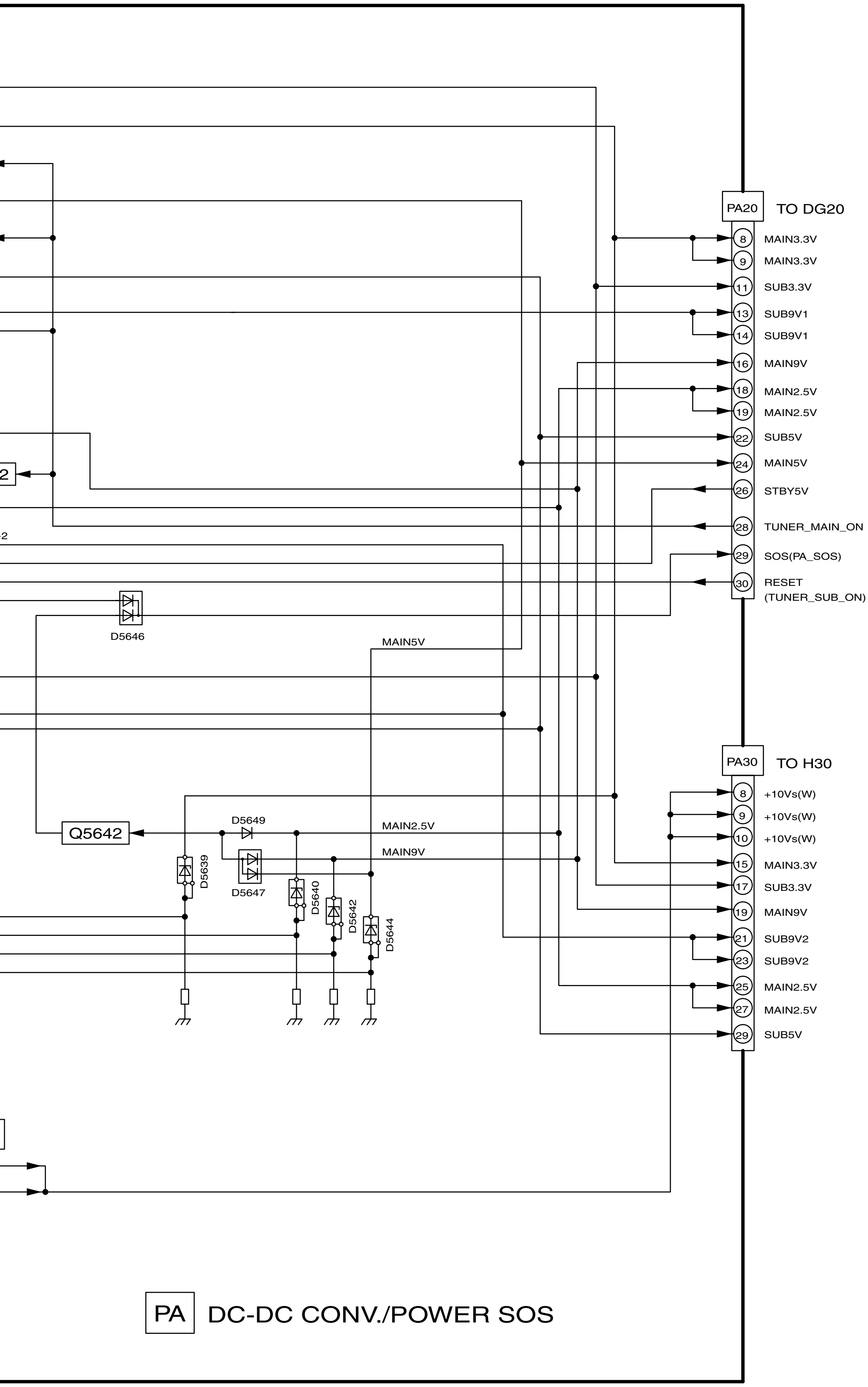
TH-42PM50U
P-Board (6 of 6) Schematic Diagram

14 15 16 17 18

13.10. PA and PB-Board Block Diagram

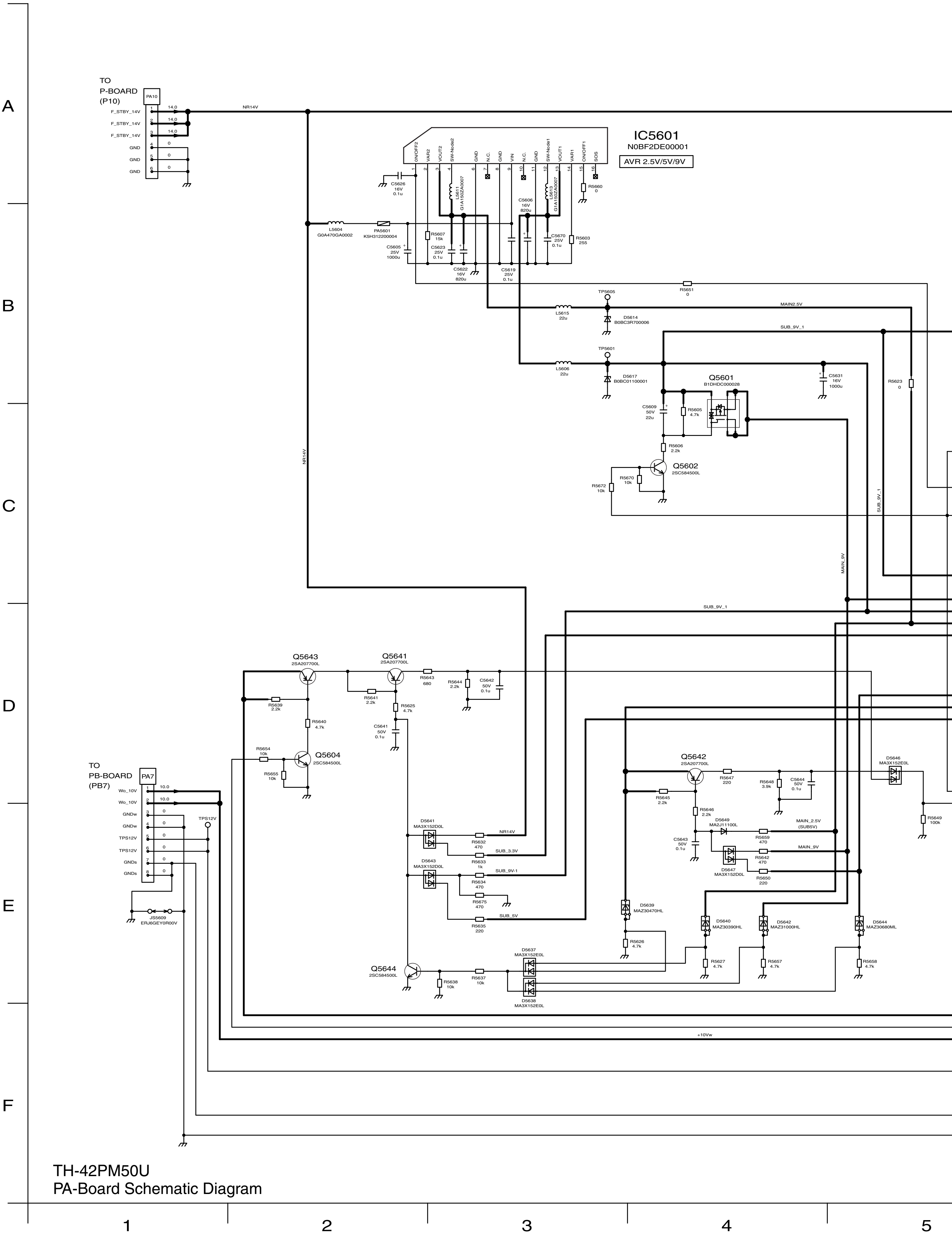

IC5602
AVR 2.5V/3.3V
TO P10
PA10
F_STBY_14V
F_STBY_14V
F_STBY_14V
1
2
3
NR14V
15 ON/OFF
9 VIN
1 ON/OFF
VOUT1 13
VOUT2 3
Q5613
SUB3.3V
MAIN3.3V
Q5606
VOUT1_3.3V
ON\OFF
Q5607
Q5603
MAIN5V
VOUT2_5V
ON/OFF
Q5605
SUB5V
SUB9V-1
IC5601
AVR 2.5V/5V/9V
15 ON/OFF
VOUT1 13
9 VIN
1 ON/OFF
VOUT2 3
Q5610
VOUT1_9V
VOUT2_2.5V
Q5601
MAIN9V
ON/OFF
Q5602
SUB9V-2
Q5604
Q5643
ON/OFF
Q5641
D5
SUB3.3V
D5641
SUB9V
SUB5V
D5643
D5637
Q5644
D5638
Q5642
IC5803
AVR 10V
TO P5
PB5
+12Vs(W)
+12Vs(W)
7
8
1 VIN
VOUT 2
PB7
1
2
Wo_10V
Wo_10V
PA7
1
2
PB
AUDIO POWER

TH-42PM50U
PA and PB-Board Block Diagram

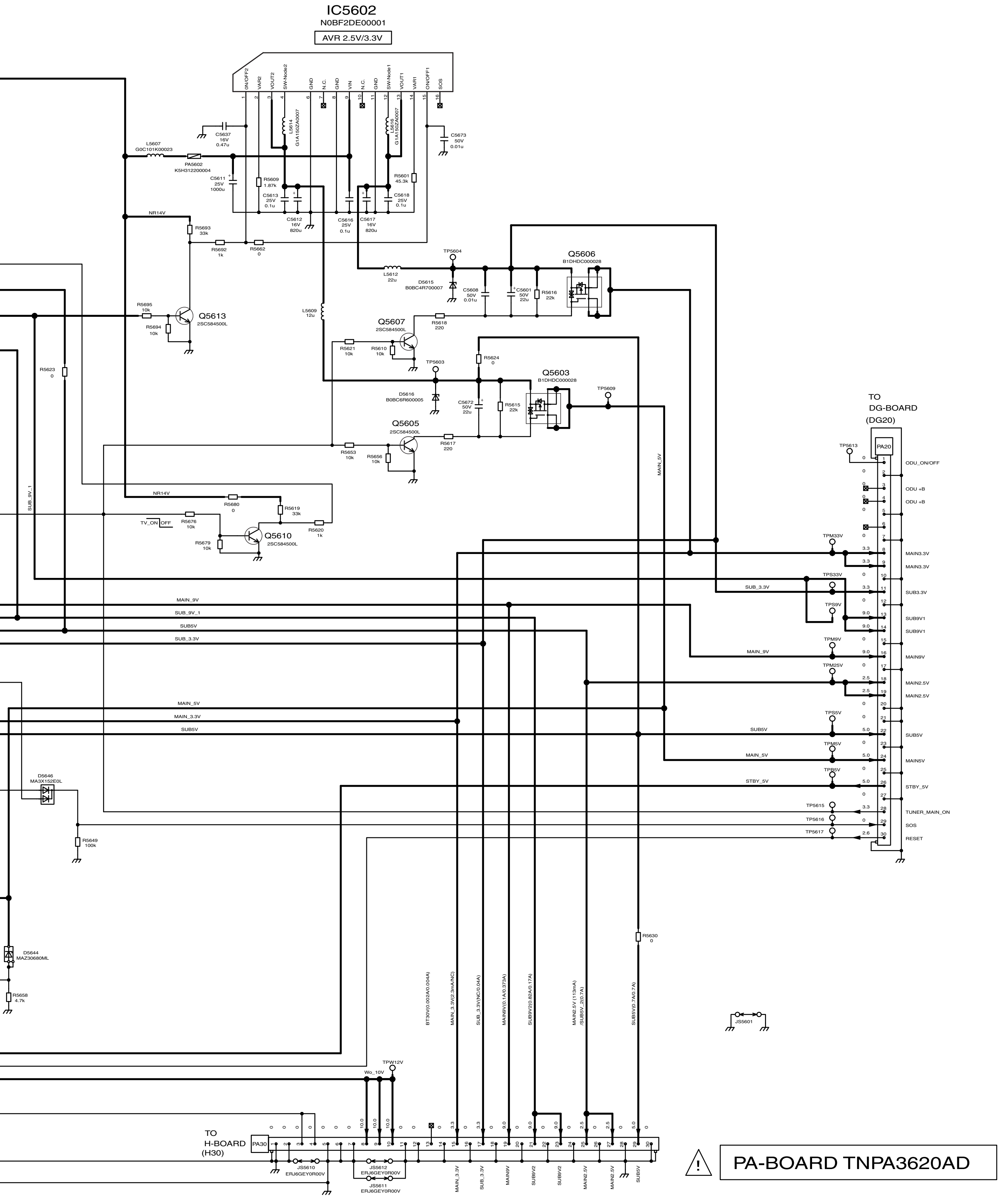

PA20
TO DG20
8 MAIN3.3V
9 MAIN3.3V
11 SUB3.3V
13 SUB9V1
14 SUB9V1
16 MAIN9V
18 MAIN2.5V
19 MAIN2.5V
22 SUB5V
24 MAIN5V
26 STBY5V
28 TUNER_MAIN_ON
29 SOS(PA_SOS)
30 RESET (TUNER_SUB_ON)
2
D5646
MAIN5V
PA30
TO H30
8 +10Vs(W)
9 +10Vs(W)
10 +10Vs(W)
15 MAIN3.3V
17 SUB3.3V
19 MAIN9V
21 SUB9V2
23 SUB9V2
25 MAIN2.5V
27 MAIN2.5V
29 SUB5V
Q5642
D5649
MAIN2.5V
MAIN9V
D5639
D5647
D5640
D5642
D5644
PA
DC-DC CONV./POWER SOS

TH-42PM50U
PA and PB-Board Block Diagram

13.11. PA-Board Schematic Diagram


A
B
C
D
E
F
1
2
3
4
5
TO
P-BOARD
(P10)
PA10
F_STBY_14V
F_STBY_14V
F_STBY_14V
GND
GND
GND
14.0
14.0
14.0
0
0
0
NR14V
IC5601
N0BF2DE00001
AVR 2.5V/5V/9V
ON/OFF2
VAR2
VOUT2
SW-Node2
GND
N.C.
GND
VIN
N.C.
GND
SW-Node1
VOUT1
VAR1
ON/OFF1
SOS
C5626
16V
0.1u
L5611
G1A150ZA0007
L5613
G1A150ZA0007
C5606
16V
820u
R5660
0
L5604
G0A470GA0002
PA5601
K5H312200004
C5605
25V
1000u
R5607
15k
C5623
25V
0.1u
C5622
16V
820u
C5619
25V
0.1u
C5670
25V
0.1u
R5603
255
R5651
0
TP5605
L5615
22u
D5614
B0BC3R700006
MAIN2.5V
SUB_9V_1
TP5601
L5606
22u
D5617
B0BC01100001
Q5601
B1DHDC000028
C5631
16V
1000u
R5623
0
C5609
50V
22u
R5605
4.7k
R5606
2.2k
Q5602
2SC584500L
R5670
10k
R5672
10k
NR14V
SUB_9V_1
MAIN_9V
SUB_9V_1
Q5643
2SA207700L
Q5641
2SA207700L
R5643
680
R5644
2.2k
C5642
50V
0.1u
R5641
2.2k
R5639
2.2k
R5625
4.7k
R5640
4.7k
C5641
50V
0.1u
R5654
10k
Q5604
2SC584500L
R5655
10k
TO
PB-BOARD
(PB7)
PA7
Wo_10V
Wo_10V
GNDw
GNDw
TPS12V
TPS12V
GNDs
GNDs
10.0
10.0
0
0
0
0
0
0
TPS12V
JS5609
ERJ6GEY0R00V
D5641
MA3X152D0L
R5632
470
NR14V
R5633
1k
SUB_3.3V
D5643
MA3X152D0L
R5634
470
SUB_9V-1
R5675
470
R5635
220
SUB_5V
Q5642
2SA207700L
R5647
220
R5648
3.9k
C5644
50V
0.1u
D5646
MA3X152E0L
R5645
2.2k
R5646
2.2k
D5649
MA2J11100L
MAIN_2.5V
(SUB5V)
C5643
50V
0.1u
R5659
470
MAIN_9V
R5642
470
D5647
MA3X152D0L
R5650
220
R5649
100k
D5639
MAZ30470HL
D5640
MAZ30390HL
D5642
MAZ31000HL
D5644
MAZ30680ML
R5626
4.7k
R5627
4.7k
R5657
4.7k
R5658
4.7k
D5637
MA3X152E0L
Q5644
2SC584500L
R5638
10k
R5637
10k
D5638
MA3X152E0L
+10Vw

TH-42PM50U
PA-Board Schematic Diagram

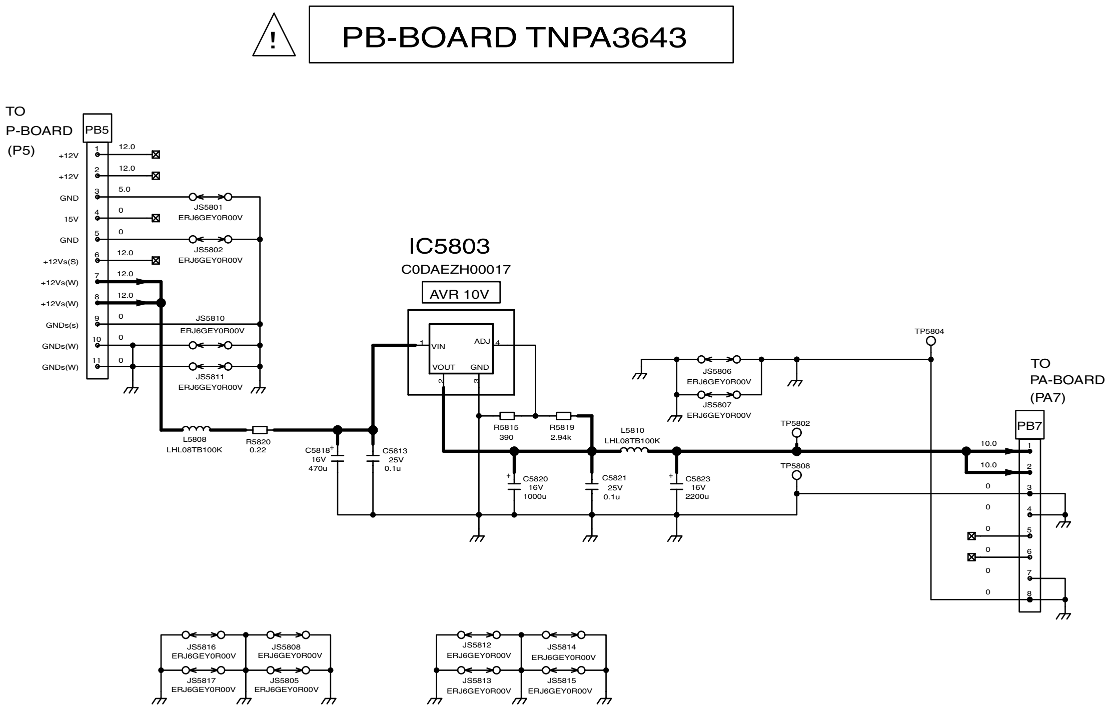

IC5602
N0BF2DE00001
AVR 2.5V/3.3V
ON/OFF2
VAR2
VOUT2
SW-Node2
GND
N.C.
VIN
SW-Node1
VOUT1
VAR1
ON/OFF1
SOS
L5607
G0C101K00023
PA5602
K5H312200004
C5637
16V
0.47u
C5611
25V
1000u
R5609
1.87k
L5614
G1A150ZA0007
C5613
25V
0.1u
C5612
16V
820u
C5616
25V
0.1u
C5617
16V
820u
C5618
25V
0.1u
R5601
45.3k
L5615
G1A150ZA0007
C5673
50V
0.01u
NR14V
R5693
33k
R5692
1k
R5662
0
R5695
10k
R5694
10k
Q5613
2SC584500L
R5623
0
TP5604
Q5606
B1DHDC000028
L5612
22u
D5615
B0BC4R700007
C5608
50V
0.01u
C5601
50V
22u
R5616
22k
L5609
12u
Q5607
2SC584500L
R5618
220
R5621
10k
R5610
10k
TP5603
R5624
0
Q5603
B1DHDC000028
TP5609
D5616
B0BC6R600005
C5672
50V
22u
R5615
22k
Q5605
2SC584500L
R5617
220
R5653
10k
R5656
10k
SUB_9V_1
NR14V
R5680
0
R5619
33k
TV_ON
OFF
R5676
10k
R5620
1k
Q5610
2SC584500L
R5679
10k
MAIN_5V
TO
DG-BOARD
(DG20)
TP5613
PA20
ODU_ON/OFF
ODU +B
ODU +B
TPM33V
MAIN3.3V
MAIN3.3V
TPS33V
SUB_3.3V
SUB3.3V
TPS9V
SUB9V1
SUB9V1
TPM9V
MAIN_9V
MAIN9V
TPM25V
MAIN2.5V
MAIN2.5V
TPS5V
SUB5V
SUB5V
TPM5V
MAIN_5V
MAIN5V
TPB5V
STBY_5V
STBY_5V
TP5615
TUNER_MAIN_ON
TP5616
SOS
TP5617
RESET
MAIN_9V
SUB_9V_1
SUB5V
SUB_3.3V
MAIN_5V
MAIN_3.3V
SUB5V
D5646
MA3X152E0L
R5649
100k
D5644
MAZ30680ML
R5658
4.7k
R5630
0
BT30V(0.002A/0.004A)
MAIN_3.3V(2.3mA/NC)
SUB_3.3V(NC/0.04A)
MAIN9V(0.1A/0.373A)
SUB9V2(0.82A/0.17A)
MAIN2.5V (113mA)
/SUB5V_2(0.7A)
SUB5V(0.7A/0.7A)
JS5601
TPW12V
Wo_10V
TO
H-BOARD
(H30)
PA30
JS5610
ERJ6GEY0R00V
JS5612
ERJ6GEY0R00V
JS5611
ERJ6GEY0R00V
MAIN_3.3V
SUB_3.3V
MAIN9V
SUB9V2
SUB9V2
MAIN2.5V
MAIN2.5V
SUB5V

⚠ PA-BOARD TNPA3620AD

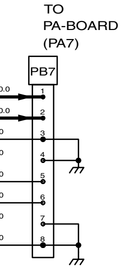
TH-42PM50U
PA-Board Schematic Diagram

5 6 7 8 9

13.12. PB-Board Schematic Diagram

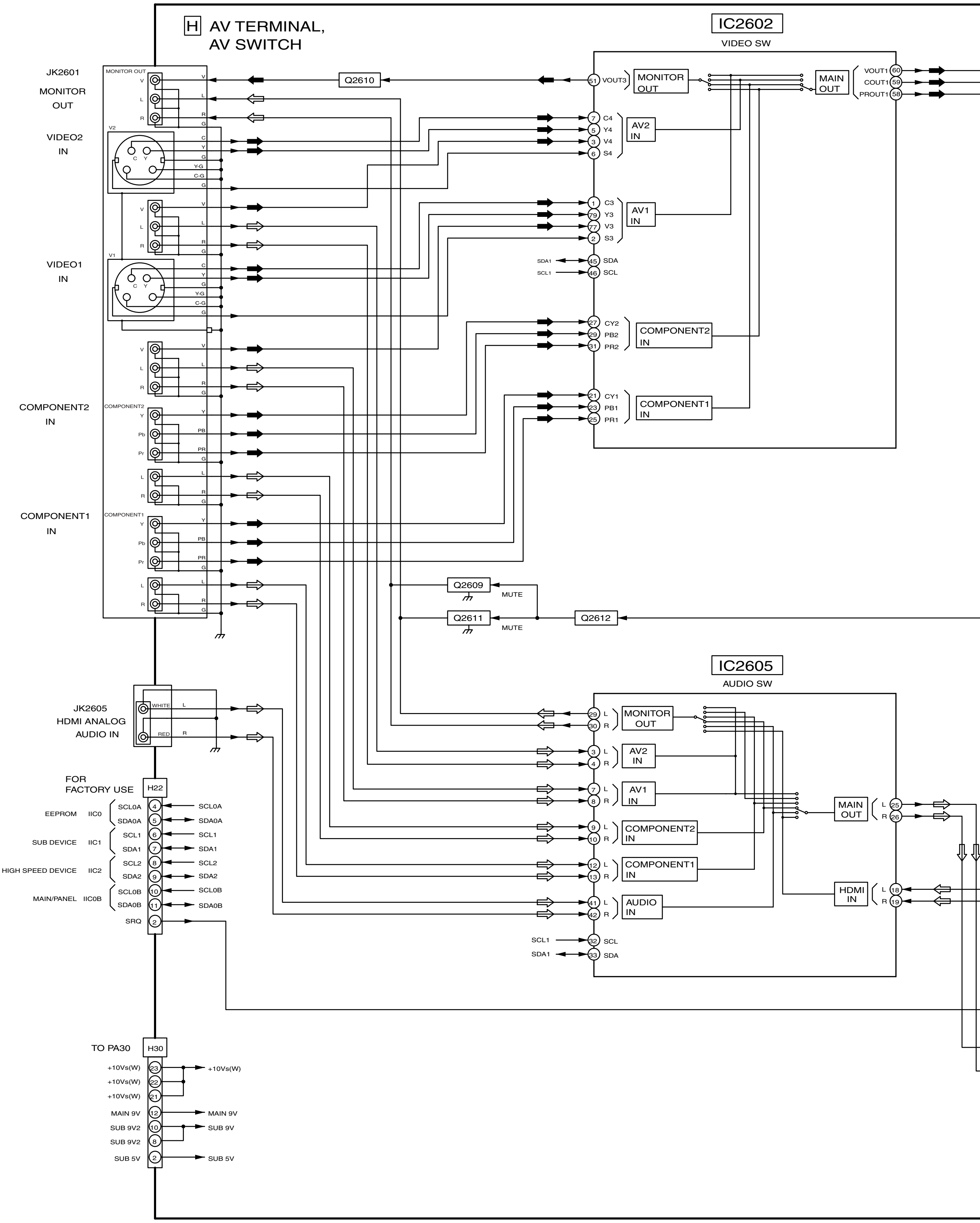


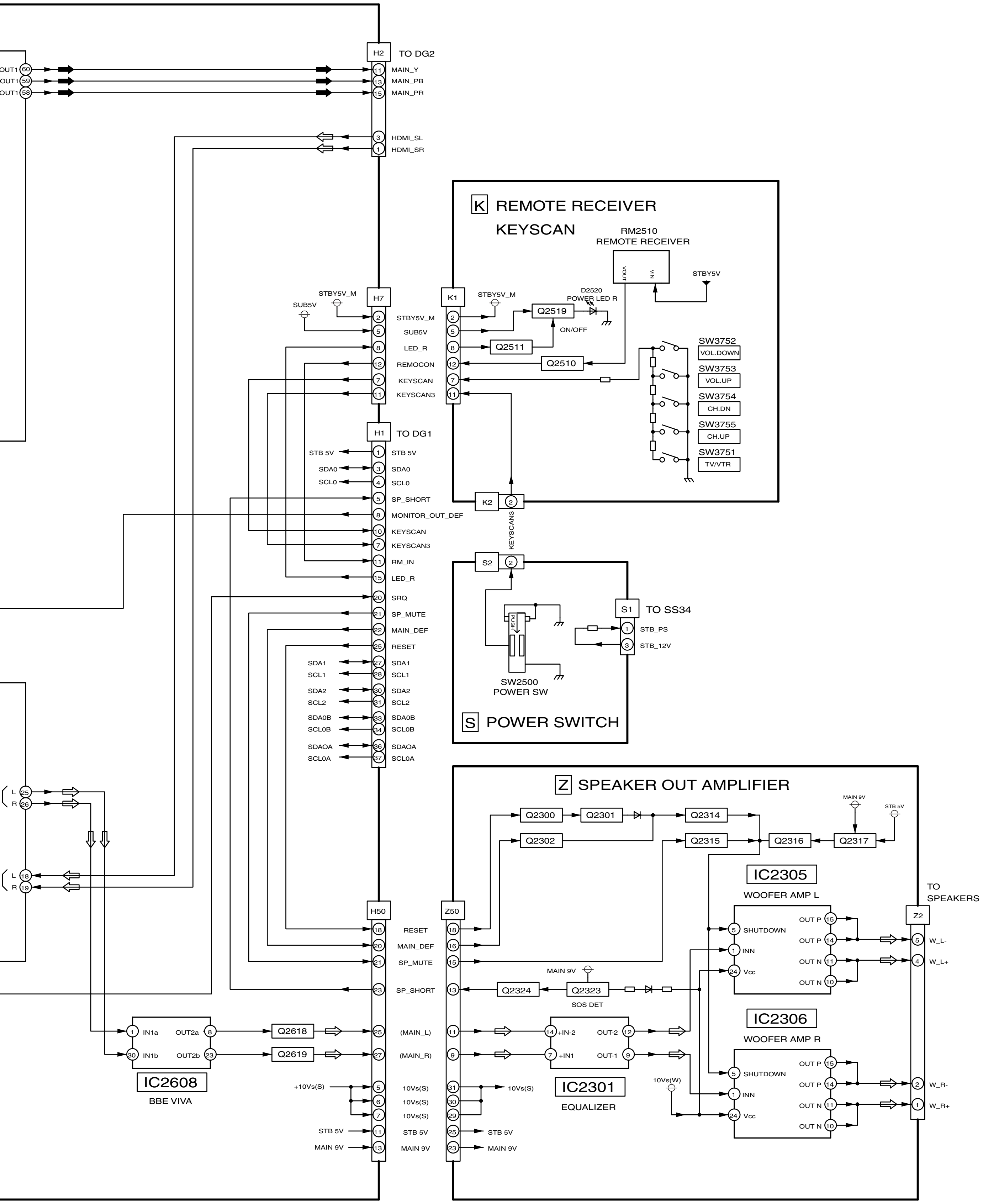
A
B
C
D
E
1
2
3
4
!
PB-BOARD TNPA3643
TO
P-BOARD
(P5)
PB5
+12V
+12V
GND
15V
GND
+12Vs(S)
+12Vs(W)
+12Vs(W)
GNDs(s)
GNDs(W)
GNDs(W)
1
2
3
4
5
6
7
8
9
10
11
12.0
12.0
5.0
0
0
12.0
12.0
12.0
0
0
0
JS5801
ERJ6GEY0R00V
JS5802
ERJ6GEY0R00V
JS5810
ERJ6GEY0R00V
JS5811
ERJ6GEY0R00V
L5808
LHL08TB100K
R5820
0.22
C5818
16V
470u
C5813
25V
0.1u
IC5803
C0DAEZH00017
AVR 10V
VIN
ADJ
VOUT
GND
1
4
2
3
R5815
390
R5819
2.94k
L5810
LHL08TB100K
C5820
16V
1000u
C5821
25V
0.1u
C5823
16V
2200u
JS5806
ERJ6GEY0R00V
JS5807
ERJ6GEY0R00V
TP5804
TP5802
TP5808
TO
PA-BOARD
(PA7)
PB7
10.0
10.0
0
0
0
0
0
0
1
2
3
4
5
6
7
8
JS5816
ERJ6GEY0R00V
JS5808
ERJ6GEY0R00V
JS5817
ERJ6GEY0R00V
JS5805
ERJ6GEY0R00V
JS5812
ERJ6GEY0R00V
JS5814
ERJ6GEY0R00V
JS5813
ERJ6GEY0R00V
JS5815
ERJ6GEY0R00V


TO
PA-BOARD
(PA7)
PB7
0.0
0.0
0
0
0
0
0
0
1
2
3
4
5
6
7
8

TH-42PM50U
PB-Board Schematic Diagram

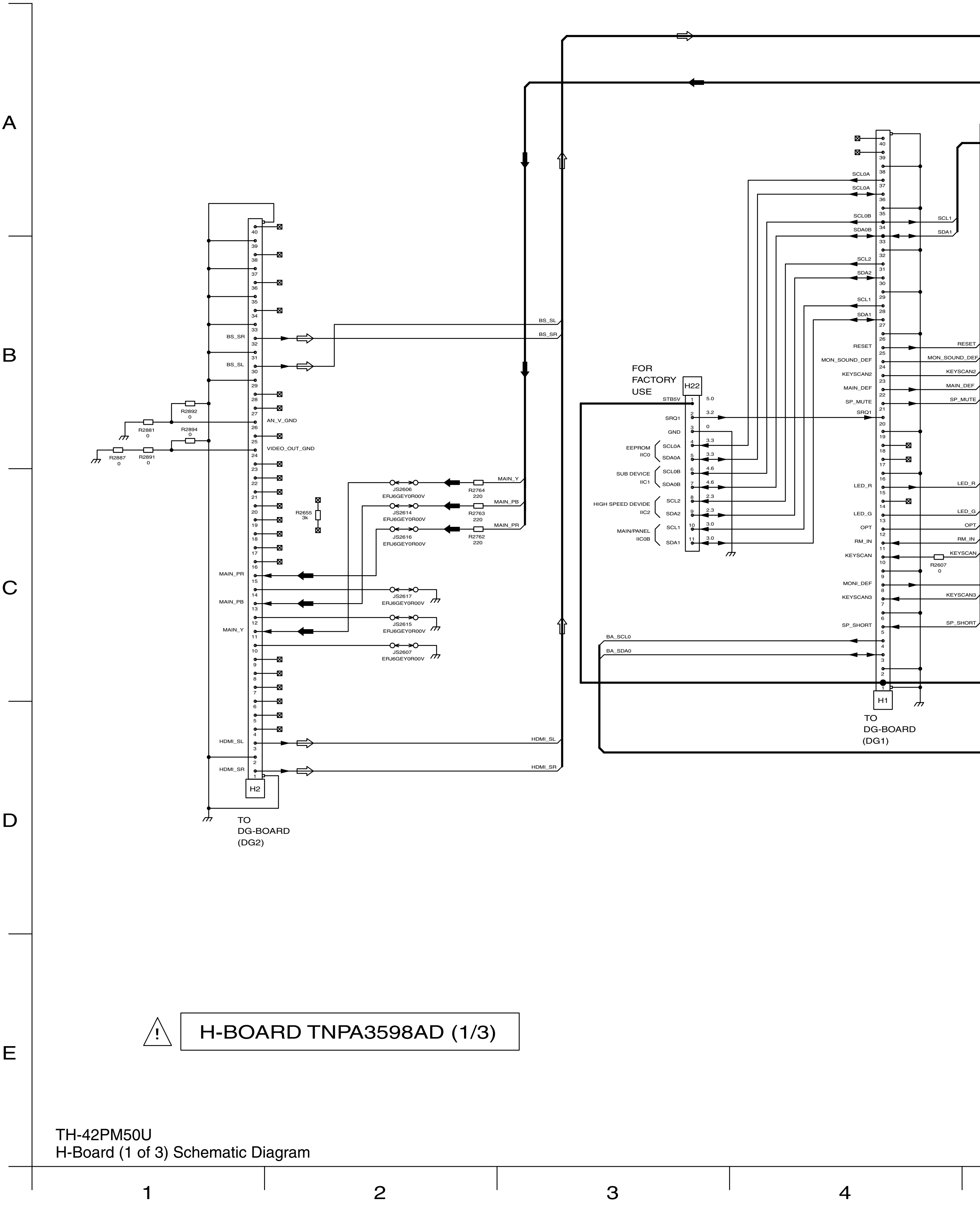
13.13. H, K, S and Z-Board Block Diagram


H
AV TERMINAL,
AV SWITCH
IC2602
VIDEO SW
JK2601
MONITOR
OUT
MONITOR OUT
V
L
R
G
VIDEO2
IN
V2
C
Y
Y-G
C-G
VIDEO1
IN
V1
COMPONENT2
IN
COMPONENT2
Y
Pb
Pr
PB
PR
COMPONENT1
IN
COMPONENT1
Q2610
51 VOUT3
MONITOR
OUT
MAIN
OUT
VOUT1 60
COUT1 59
PROUT1 58
7 C4
5 Y4
3 V4
6 S4
AV2
IN
1 C3
79 Y3
77 V3
2 S3
AV1
IN
SDA1
SCL1
45 SDA
46 SCL
27 CY2
29 PB2
31 PR2
COMPONENT2
IN
21 CY1
23 PB1
25 PR1
COMPONENT1
IN
Q2609
MUTE
Q2611
MUTE
Q2612
IC2605
AUDIO SW
JK2605
HDMI ANALOG
AUDIO IN
WHITE
RED
29 L
30 R
MONITOR
OUT
3 L
4 R
AV2
IN
7 L
8 R
AV1
IN
9 L
10 R
COMPONENT2
IN
12 L
13 R
COMPONENT1
IN
41 L
42 R
AUDIO
IN
SCL1
SDA1
32 SCL
33 SDA
MAIN
OUT
L 25
R 26
HDMI
IN
L 18
R 19
FOR
FACTORY USE
H22
EEPROM
IIC0
SCL0A 4
SDA0A 5
SUB DEVICE
IIC1
SCL1 6
SDA1 7
HIGH SPEED DEVICE
IIC2
SCL2 8
SDA2 9
MAIN/PANEL
IIC0B
SCL0B 10
SDA0B 11
SRQ 2
SCL0A
SDA0A
SCL1
SDA1
SCL2
SDA2
SCL0B
SDA0B
TO PA30
H30
+10Vs(W) 23
+10Vs(W) 22
+10Vs(W) 21
MAIN 9V 12
SUB 9V2 10
SUB 9V2 8
SUB 5V 2
+10Vs(W)
MAIN 9V
SUB 9V
SUB 5V

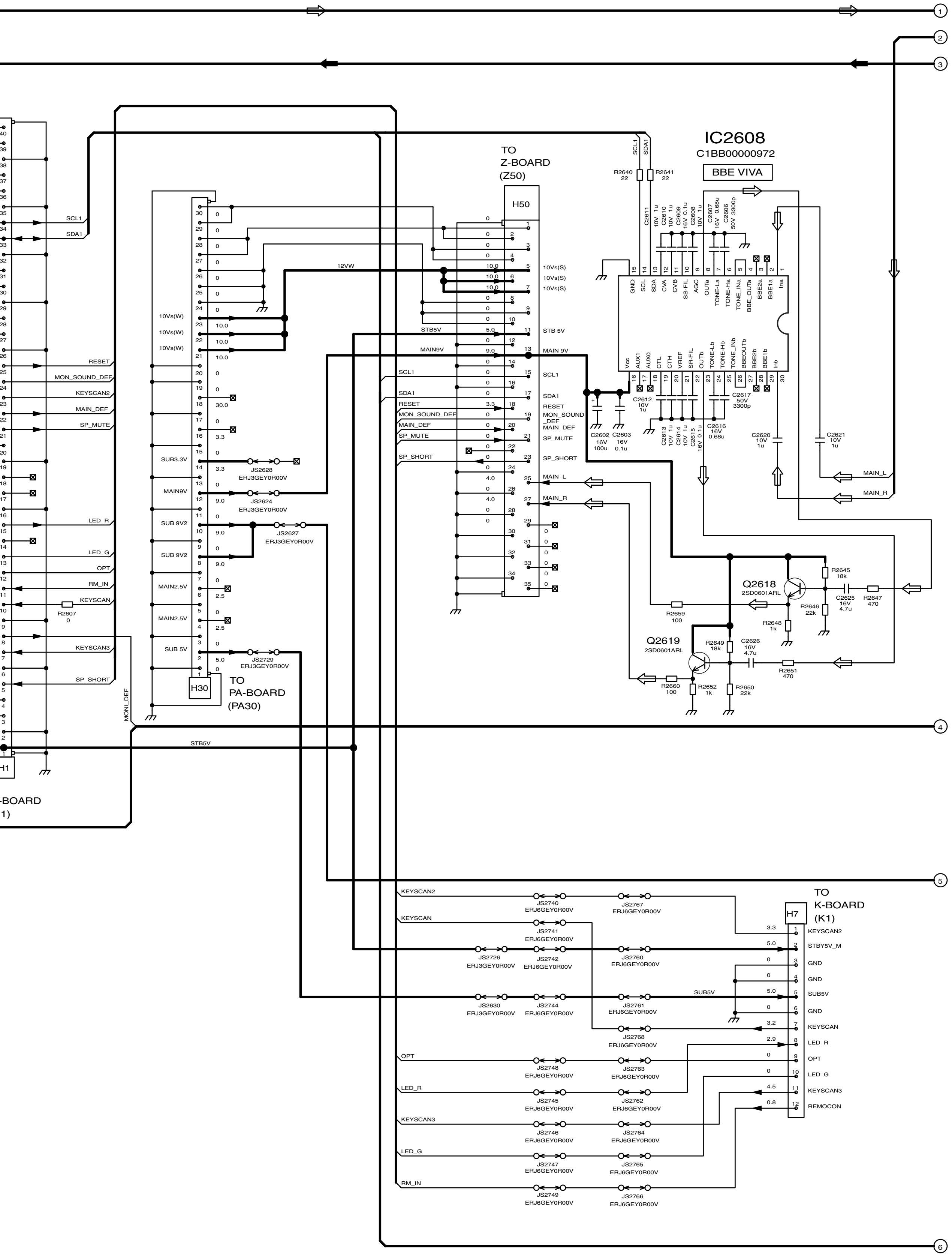

H2
TO DG2
MAIN_Y
MAIN_PB
MAIN_PR
HDMI_SL
HDMI_SR
OUT1
K
REMOTE RECEIVER
KEYSCAN
RM2510
REMOTE RECEIVER
VOUT
VIN
STBY5V
D2520
POWER LED R
Q2519
ON/OFF
Q2511
Q2510
H7
K1
STBY5V_M
SUB5V
LED_R
REMOCON
KEYSCAN
KEYSCAN3
SW3752
VOL.DOWN
SW3753
VOL.UP
SW3754
CH.DN
SW3755
CH.UP
SW3751
TV/VTR
H1
TO DG1
STB 5V
SDA0
SCL0
SP_SHORT
MONITOR_OUT_DEF
RM_IN
SRQ
SP_MUTE
MAIN_DEF
RESET
SDA1
SCL1
SDA2
SCL2
SDA0B
SCL0B
SDAOA
SCL0A
K2
S2
PUSH
SW2500
POWER SW
S1
TO SS34
STB_PS
STB_12V
S
POWER SWITCH
Z
SPEAKER OUT AMPLIFIER
MAIN 9V
STB 5V
Q2300
Q2301
Q2314
Q2302
Q2315
Q2316
Q2317
IC2305
WOOFER AMP L
SHUTDOWN
INN
Vcc
OUT P
OUT N
TO
SPEAKERS
Z2
W_L-
W_L+
IC2306
WOOFER AMP R
W_R-
W_R+
H50
Z50
Q2324
Q2323
SOS DET
IN1a
IN1b
OUT2a
OUT2b
IC2608
BBE VIVA
Q2618
Q2619
(MAIN_L)
(MAIN_R)
+IN-2
+IN1
OUT-2
OUT-1
IC2301
EQUALIZER
10Vs(W)
+10Vs(S)
10Vs(S)
MAIN 9V
L
R

TH-42PM50U
H, K, S and Z-Board Block Diagram

13.14. H-Board (1 of 3) Schematic Diagram


A
B
C
D
E
1
2
3
4
H2
TO
DG-BOARD
(DG2)
BS_SR
BS_SL
AN_V_GND
VIDEO_OUT_GND
MAIN_PR
MAIN_PB
MAIN_Y
HDMI_SL
HDMI_SR
R2892
0
R2881
0
R2894
0
R2887
0
R2891
0
R2655
3k
JS2606
ERJ6GEY0R00V
JS2614
ERJ6GEY0R00V
JS2616
ERJ6GEY0R00V
JS2617
ERJ6GEY0R00V
JS2615
ERJ6GEY0R00V
JS2607
ERJ6GEY0R00V
R2764
220
R2763
220
R2762
220
FOR
FACTORY
USE
H22
STB5V
SRQ1
GND
EEPROM
IIC0
SCL0A
SDA0A
SUB DEVICE
IIC1
SCL0B
SDA0B
HIGH SPEED DEVIDE
IIC2
SCL2
SDA2
MAIN/PANEL
IIC0B
SCL1
SDA1
5.0
3.2
0
3.3
3.3
4.6
4.6
2.3
2.3
3.0
3.0
SCL0A
SCL0A
SCL0B
SDA0B
SCL2
SDA2
SCL1
SDA1
SCL1
SDA1
RESET
MON_SOUND_DEF
KEYSCAN2
MAIN_DEF
SP_MUTE
SRQ1
LED_R
LED_G
OPT
RM_IN
KEYSCAN
R2607
0
MONI_DEF
KEYSCAN3
SP_SHORT
BA_SCL0
BA_SDA0
H1
TO
DG-BOARD
(DG1)
H-BOARD TNPA3598AD (1/3)

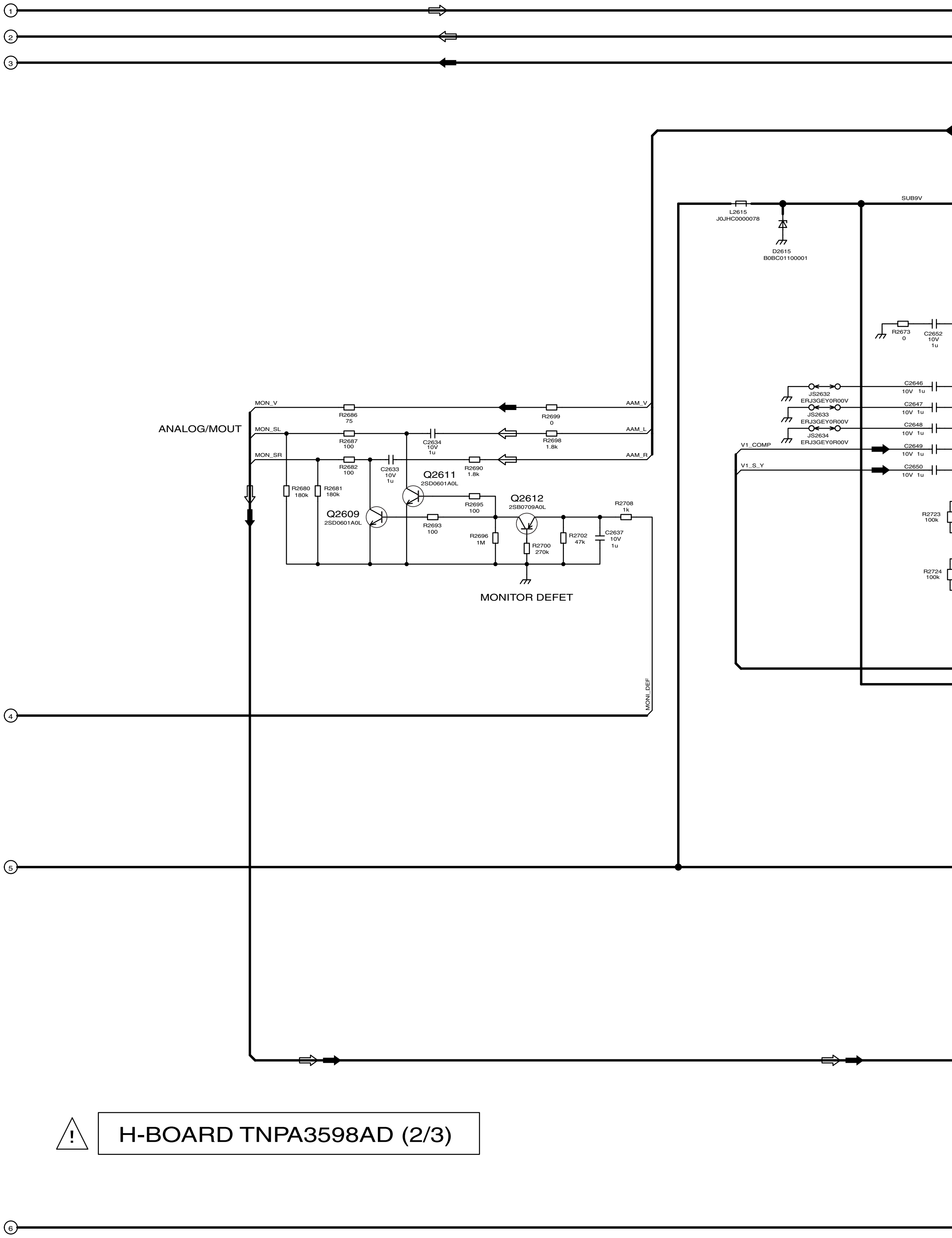
TH-42PM50U
H-Board (1 of 3) Schematic Diagram

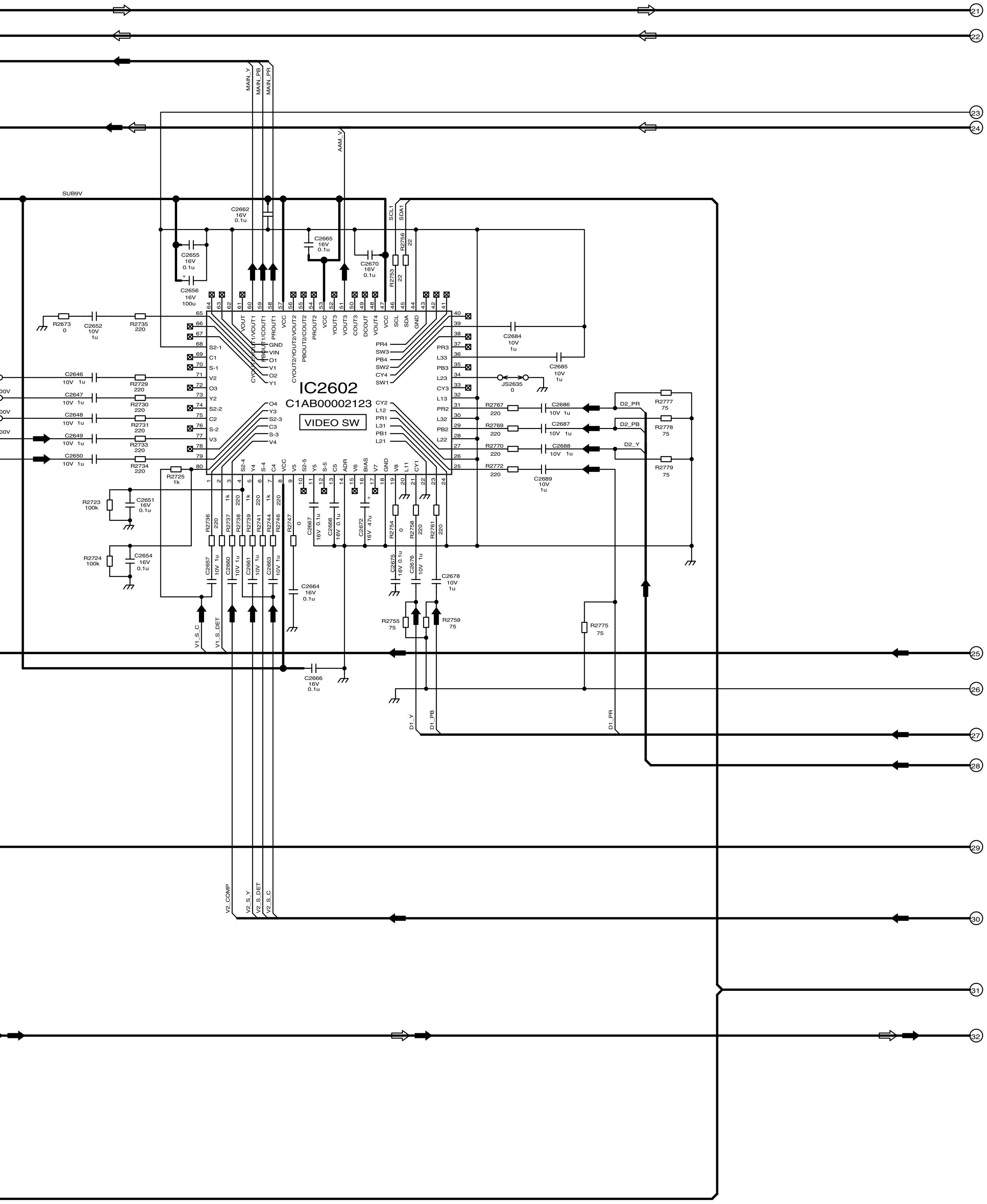

IC2608
C1BB00000972
BBE VIVA
TO
Z-BOARD
(Z50)
H50
TO
PA-BOARD
(PA30)
H30
TO
K-BOARD
(K1)
H7
-BOARD
1)
H1
Q2618
2SD0601ARL
Q2619
2SD0601ARL
SCL1
SDA1
RESET
MON_SOUND_DEF
KEYSCAN2
MAIN_DEF
SP_MUTE
LED_R
LED_G
OPT
RM_IN
KEYSCAN
KEYSCAN3
SP_SHORT
MONI_DEF
STB5V
12VW
10Vs(W)
10Vs(S)
STB 5V
MAIN 9V
MAIN9V
SUB3.3V
SUB 9V2
MAIN2.5V
SUB 5V
SUB5V
MAIN_L
MAIN_R
STBY5V_M
GND
SUB5V
LED_R
LED_G
KEYSCAN3
REMOCON
JS2628
JS2624
JS2627
JS2729
ERJ3GEY0R00V
JS2740
JS2741
JS2742
JS2744
JS2745
JS2746
JS2747
JS2748
JS2749
JS2726
JS2630
JS2760
JS2761
JS2762
JS2763
JS2764
JS2765
JS2766
JS2767
JS2768
ERJ6GEY0R00V
R2607
R2640 22
R2641 22
R2645 18k
R2646 22k
R2647 470
R2648 1k
R2649 18k
R2650 22k
R2651 470
R2652 1k
R2659 100
R2660 100
C2602 16V 100u
C2603 16V 0.1u
C2606 50V 3300p
C2607 16V 0.68u
C2608 10V 1u
C2609 16V 0.1u
C2610 10V 1u
C2611 10V 1u
C2612 10V 1u
C2613 10V 1u
C2614 10V 1u
C2615 16V 0.1u
C2616 16V 0.68u
C2617 50V 3300p
C2620 10V 1u
C2621 10V 1u
C2625 16V 4.7u
C2626 16V 4.7u
GND
SCL
SDA
CVA
CVB
SS-FIL
AGC
OUTa
TONE-La
TONE-Ha
TONE_INa
BBE_OUTa
BBE2a
BBE1a
INa
Vcc
AUX1
AUX0
CTL
CTH
VREF
SR-FIL
OUTb
TONE-Lb
TONE-Hb
TONE_INb
BBEOUTb
BBE2b
BBE1b
Inb
1
2
3
4
5
6

TH-42PM50U
H-Board (1 of 3) Schematic Diagram

5 6 7 8

13.15. H-Board (2 of 3) Schematic Diagram


1
2
3
L2615
J0JHC0000078
D2615
B0BC01100001
SUB9V
R2673
0
C2652
10V
1u
C2646
10V 1u
JS2632
ERJ3GEY0R00V
C2647
10V 1u
JS2633
ERJ3GEY0R00V
C2648
10V 1u
JS2634
ERJ3GEY0R00V
V1_COMP
C2649
10V 1u
V1_S_Y
C2650
10V 1u
R2723
100k
R2724
100k
ANALOG/MOUT
MON_V
R2686
75
R2699
0
AAM_V
MON_SL
R2687
100
C2634
10V
1u
R2698
1.8k
AAM_L
MON_SR
R2682
100
C2633
10V
1u
R2690
1.8k
AAM_R
R2680
180k
R2681
180k
Q2611
2SD0601A0L
R2695
100
Q2612
2SB0709A0L
R2708
1k
Q2609
2SD0601A0L
R2693
100
R2696
1M
R2700
270k
R2702
47k
C2637
10V
1u
MONITOR DEFET
MONI_DEF
4
5
H-BOARD TNPA3598AD (2/3)
6

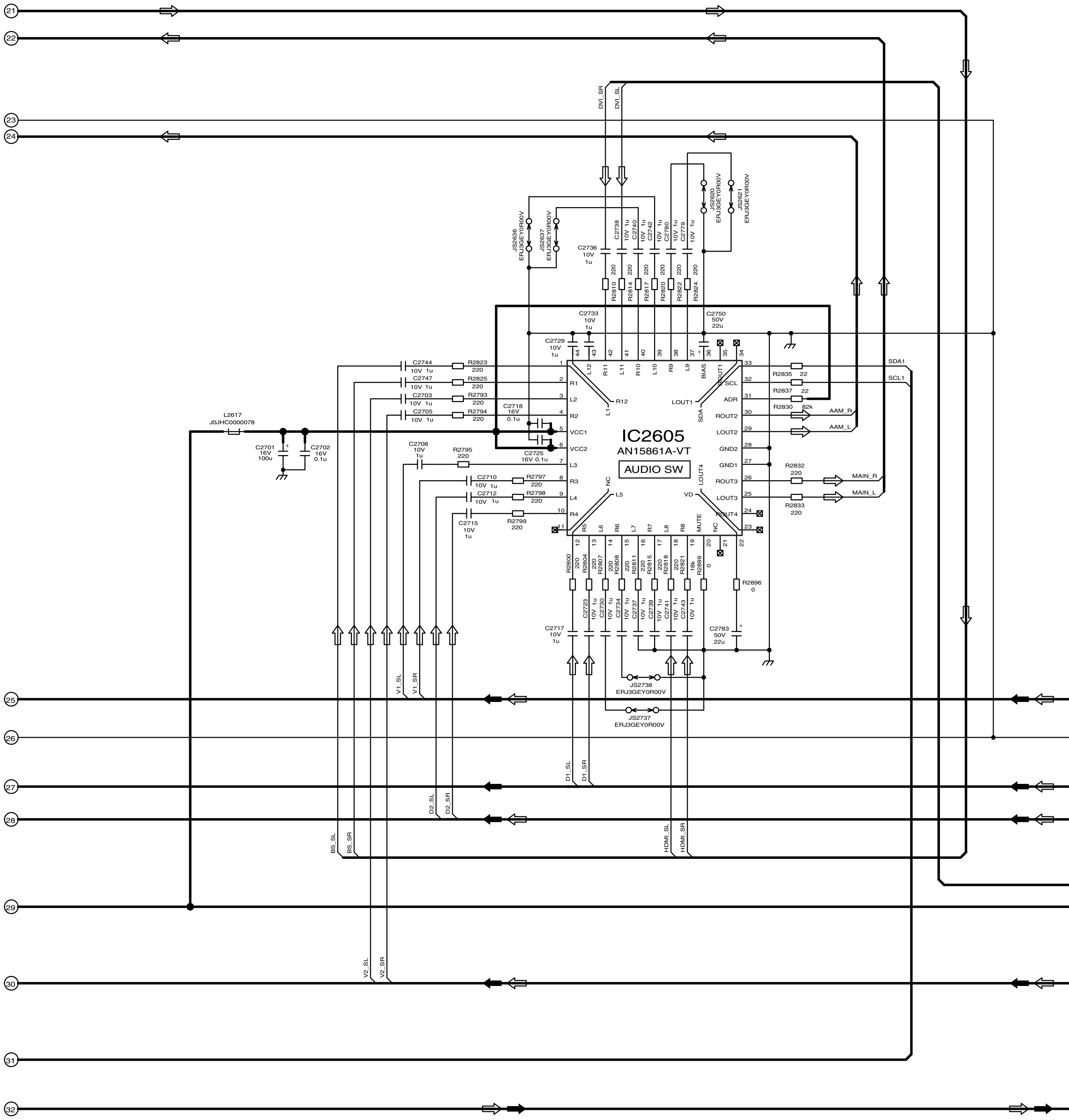


21
22
MAIN_Y
MAIN_PB
MAIN_PR
23
24
AAM_V
SUB9V
SCL1
SDA1
C2662 16V 0.1u
C2665 16V 0.1u
C2655 16V 0.1u
C2656 16V 100u
C2670 16V 0.1u
R2753 22
R2756 22
R2673 0
C2652 10V 1u
R2735 220
C2684 10V 1u
C2685 10V 1u
C2646 10V 1u
C2647 10V 1u
C2648 10V 1u
C2649 10V 1u
C2650 10V 1u
R2729 220
R2730 220
R2731 220
R2733 220
R2734 220
IC2602
C1AB00002123
VIDEO SW
VOUT
CYOUT1/YOUT1/VOUT1
PBOUT1/COUT1
PROUT1
VCC
CYOUT2/YOUT2/VOUT2
PBOUT2/COUT2
PROUT2
VCC
YOUT3
VOUT3
COUT3
DCOUT
VOUT4
VCC
SCL
SDA
GND
GND
VIN
O1
V1
O2
Y1
S2-1
C1
S-1
V2
O3
Y2
S2-2
C2
S-2
V3
O4
Y3
S2-3
C3
S-3
V4
PR4
SW3
PB4
SW2
CY4
SW1
PR3
L33
PB3
L23
CY3
L13
PR2
L32
PB2
L22
CY2
L12
PR1
L31
PB1
L21
S2-4
Y4
S-4
C4
VCC
V5
S2-5
Y5
S-5
C5
ADR
V6
BIAS
V7
GND
V8
L11
CY1
JS2635 0
R2767 220
R2769 220
R2770 220
R2772 220
C2686 10V 1u
C2687 10V 1u
C2688 10V 1u
C2689 10V 1u
D2_PR
D2_PB
D2_Y
R2777 75
R2778 75
R2779 75
R2725 1k
R2723 100k
R2724 100k
C2651 16V 0.1u
C2654 16V 0.1u
R2736 220
R2737 1k
R2738 220
R2739 1k
R2741 220
R2744 1k
R2746 220
R2747 0
C2667 16V 0.1u
C2668 16V 0.1u
C2672 16V 47u
R2754 0
R2758 220
R2761 220
C2657 10V 1u
C2660 10V 1u
C2661 10V 1u
C2663 10V 1u
C2664 16V 0.1u
C2675 16V 0.1u
C2676 10V 1u
C2678 10V 1u
R2755 75
R2759 75
R2775 75
V1_S_C
V1_S_DET
C2666 16V 0.1u
25
26
D1_Y
D1_PB
D1_PR
27
28
29
V2_COMP
V2_S_Y
V2_S_DET
V2_S_C
30
31
32

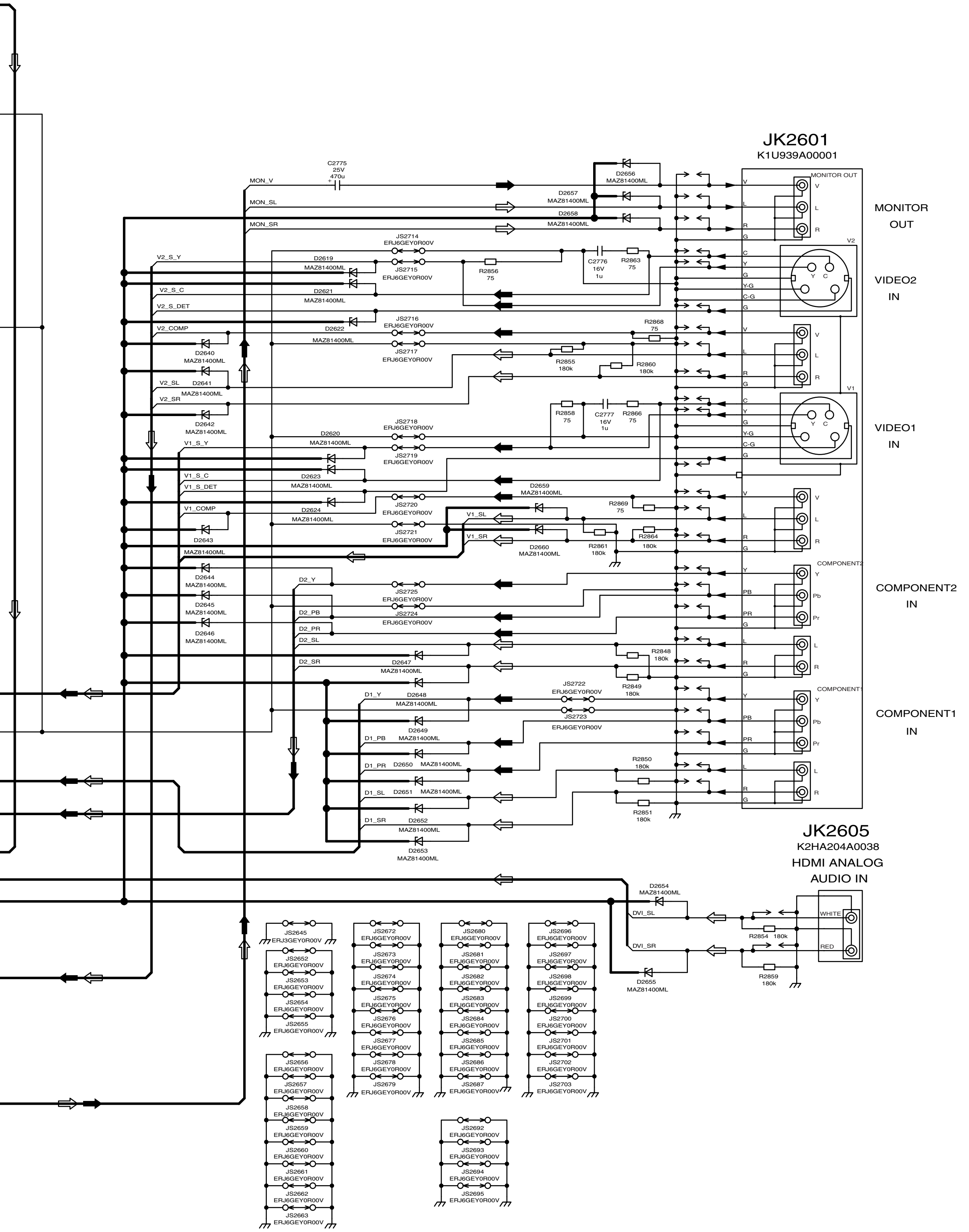
TH-42PM50U
H-Board (2 of 3) Schematic Diagram

12 13 14 15

13.16. H-Board (3 of 3) Schematic Diagram

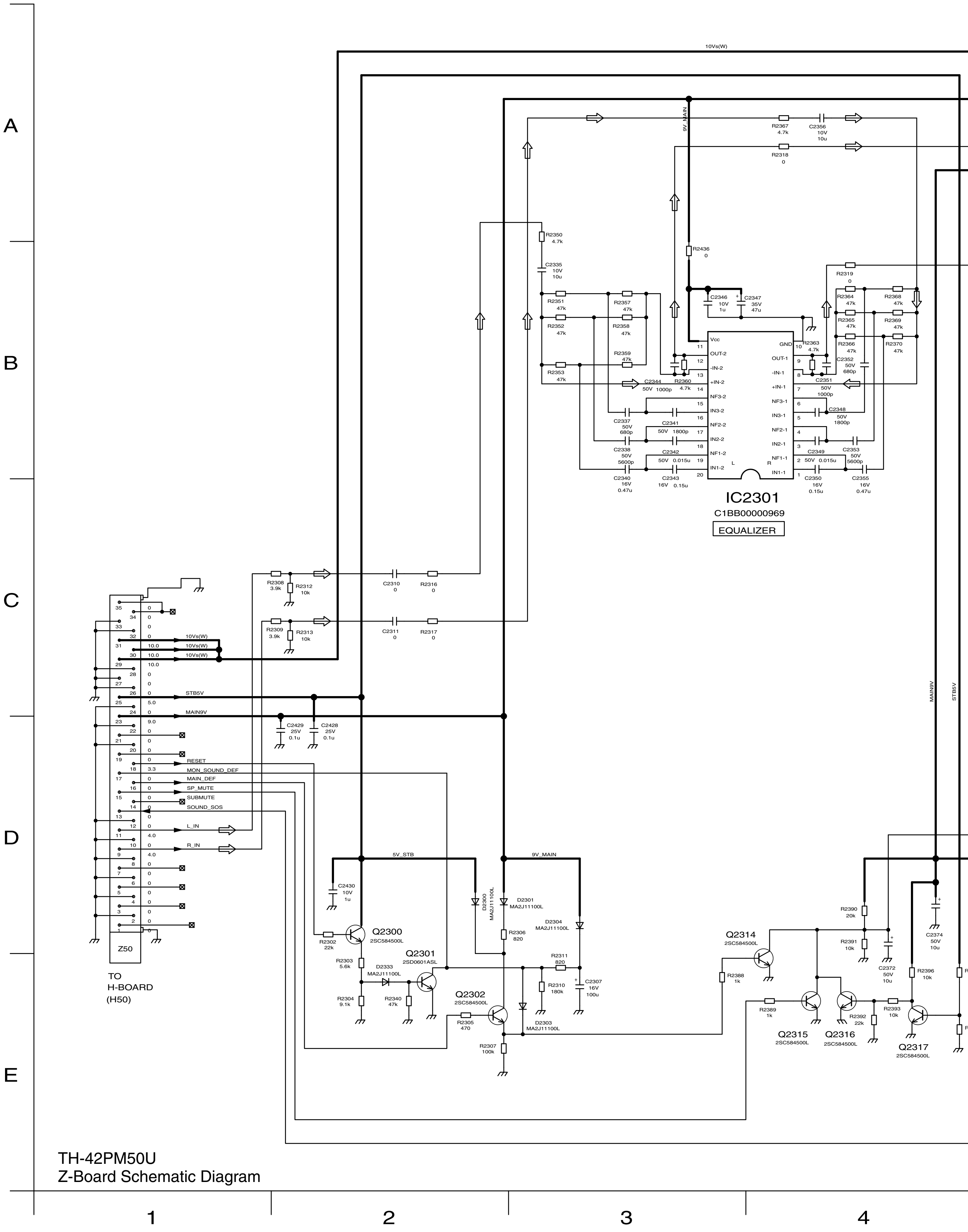

21
22
23
24
25
26
27
28
29
30
31
32
DVI_SR
DVI_SL
JS2636 ERJ3GEY0R00V
JS2637 ERJ3GEY0R00V
JS2620 ERJ3GEY0R00V
JS2621 ERJ3GEY0R00V
C2736 10V 1u
C2738 10V 1u
C2740 10V 1u
C2742 10V 1u
C2780 10V 1u
C2779 10V 1u
R2810 220
R2814 220
R2817 220
R2820 220
R2822 220
R2824 220
C2733 10V 1u
C2750 50V 22u
C2729 10V 1u
C2744 10V 1u
C2747 10V 1u
C2703 10V 1u
C2705 10V 1u
R2823 220
R2825 220
R2793 220
R2794 220
C2718 16V 0.1u
L2617 J0JHC0000078
C2701 16V 100u
C2702 16V 0.1u
C2708 10V 1u
R2795 220
C2725 16V 0.1u
C2710 10V 1u
C2712 10V 1u
R2797 220
R2798 220
C2715 10V 1u
R2799 220
IC2605
AN15861A-VT
AUDIO SW
R1
L2
R2
VCC1
VCC2
L3
R3
L4
R4
L12
R11
L11
R10
L10
R9
L9
BIAS
LOUT1
ROUT1
SCL
SDA
ADR
ROUT2
LOUT2
GND2
GND1
ROUT3
LOUT3
ROUT4
LOUT4
VD
NC
MUTE
L1
R12
L5
R5
L6
R6
L7
R7
L8
R8
R2835 22
R2837 22
R2830 82k
R2832 220
R2833 220
SDA1
SCL1
AAM_R
AAM_L
MAIN_R
MAIN_L
R2800 220
R2804 220
R2807 220
R2808 220
R2811 220
R2815 220
R2818 220
R2821 220
R2899 18k
0
R2896 0
C2717 10V 1u
C2723 10V 1u
C2730 10V 1u
C2734 10V 1u
C2737 10V 1u
C2739 10V 1u
C2741 10V 1u
C2743 10V 1u
C2783 50V 22u
JS2738 ERJ3GEY0R00V
JS2737 ERJ3GEY0R00V
V1_SL
V1_SR
D1_SL
D1_SR
D2_SL
D2_SR
BS_SL
BS_SR
HDMI_SL
HDMI_SR
V2_SL
V2_SR

H-BOARD TNPA3598AD (3/3)

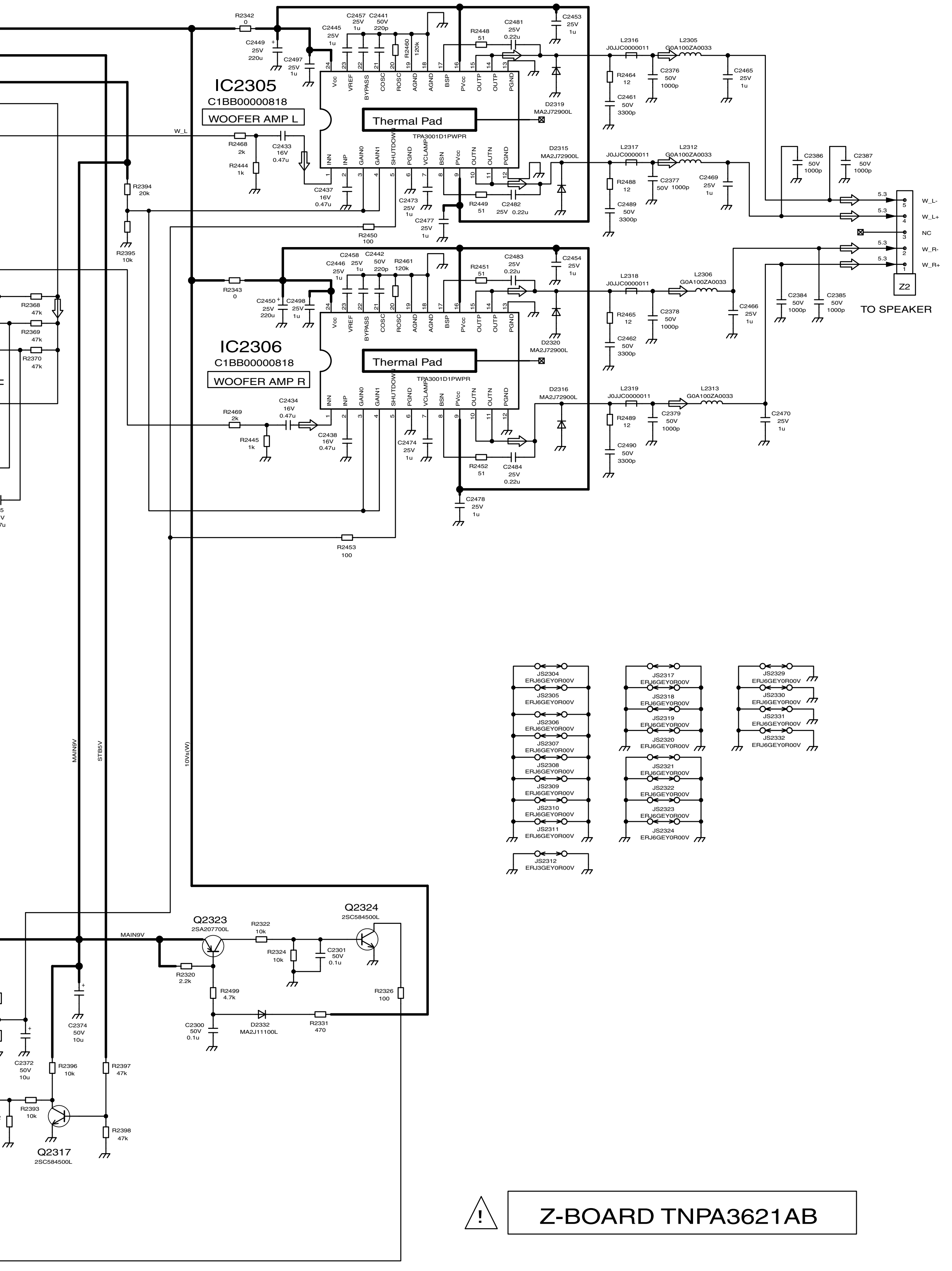

JK2601
K1U939A00001
MONITOR OUT
MONITOR
OUT
V2
VIDEO2
IN
V1
VIDEO1
IN
COMPONENT2
COMPONENT2
IN
COMPONENT1
COMPONENT1
IN
JK2605
K2HA204A0038
HDMI ANALOG
AUDIO IN
WHITE
RED
MON_V
MON_SL
MON_SR
V2_S_Y
V2_S_C
V2_S_DET
V2_COMP
V2_SL
V2_SR
V1_S_Y
V1_S_C
V1_S_DET
V1_COMP
V1_SL
V1_SR
D2_Y
D2_PB
D2_PR
D2_SL
D2_SR
D1_Y
D1_PB
D1_PR
D1_SL
D1_SR
DVI_SL
DVI_SR
C2775
25V
470u
C2776
16V
1u
C2777
16V
1u
D2656
MAZ81400ML
D2657
MAZ81400ML
D2658
MAZ81400ML
D2619
MAZ81400ML
D2621
MAZ81400ML
D2622
MAZ81400ML
D2640
MAZ81400ML
D2641
MAZ81400ML
D2642
MAZ81400ML
D2620
MAZ81400ML
D2623
MAZ81400ML
D2624
MAZ81400ML
D2643
MAZ81400ML
D2644
MAZ81400ML
D2645
MAZ81400ML
D2646
MAZ81400ML
D2647
MAZ81400ML
D2648
MAZ81400ML
D2649
MAZ81400ML
D2650
MAZ81400ML
D2651
MAZ81400ML
D2652
MAZ81400ML
D2653
MAZ81400ML
D2654
MAZ81400ML
D2655
MAZ81400ML
D2659
MAZ81400ML
D2660
MAZ81400ML
JS2714
ERJ6GEY0R00V
JS2715
ERJ6GEY0R00V
JS2716
ERJ6GEY0R00V
JS2717
ERJ6GEY0R00V
JS2718
ERJ6GEY0R00V
JS2719
ERJ6GEY0R00V
JS2720
ERJ6GEY0R00V
JS2721
ERJ6GEY0R00V
JS2725
ERJ6GEY0R00V
JS2724
ERJ6GEY0R00V
JS2722
ERJ6GEY0R00V
JS2723
ERJ6GEY0R00V
R2856
75
R2863
75
R2868
75
R2855
180k
R2860
180k
R2858
75
R2866
75
R2869
75
R2861
180k
R2864
180k
R2848
180k
R2849
180k
R2850
180k
R2851
180k
R2854 180k
R2859
180k
V
L
R
G
C
Y
Y-G
C-G
PB
PR
Pb
Pr
JS2645
ERJ3GEY0R00V
JS2652
ERJ6GEY0R00V
JS2653
ERJ6GEY0R00V
JS2654
ERJ6GEY0R00V
JS2655
ERJ6GEY0R00V
JS2656
ERJ6GEY0R00V
JS2657
ERJ6GEY0R00V
JS2658
ERJ6GEY0R00V
JS2659
ERJ6GEY0R00V
JS2660
ERJ6GEY0R00V
JS2661
ERJ6GEY0R00V
JS2662
ERJ6GEY0R00V
JS2663
ERJ6GEY0R00V
JS2672
ERJ6GEY0R00V
JS2673
ERJ6GEY0R00V
JS2674
ERJ6GEY0R00V
JS2675
ERJ6GEY0R00V
JS2676
ERJ6GEY0R00V
JS2677
ERJ6GEY0R00V
JS2678
ERJ6GEY0R00V
JS2679
ERJ6GEY0R00V
JS2680
ERJ6GEY0R00V
JS2681
ERJ6GEY0R00V
JS2682
ERJ6GEY0R00V
JS2683
ERJ6GEY0R00V
JS2684
ERJ6GEY0R00V
JS2685
ERJ6GEY0R00V
JS2686
ERJ6GEY0R00V
JS2687
ERJ6GEY0R00V
JS2692
ERJ6GEY0R00V
JS2693
ERJ6GEY0R00V
JS2694
ERJ6GEY0R00V
JS2695
ERJ6GEY0R00V
JS2696
ERJ6GEY0R00V
JS2697
ERJ6GEY0R00V
JS2698
ERJ6GEY0R00V
JS2699
ERJ6GEY0R00V
JS2700
ERJ6GEY0R00V
JS2701
ERJ6GEY0R00V
JS2702
ERJ6GEY0R00V
JS2703
ERJ6GEY0R00V

TH-42PM50U
H-Board (3 of 3) Schematic Diagram

13.17. Z-Board Schematic Diagram

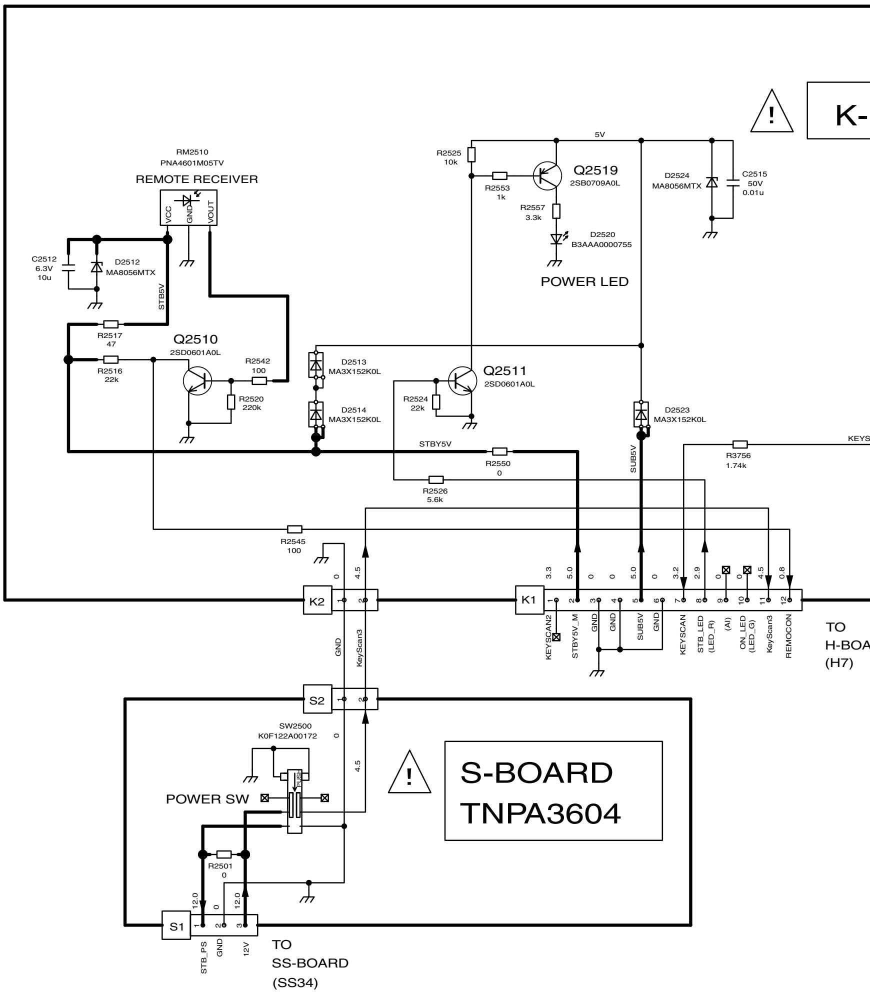

A
B
C
D
E
1
2
3
4
10Vs(W)
9V_MAIN
R2367 4.7k
C2356 10V 10u
R2318 0
R2350 4.7k
C2335 10V 10u
R2436 0
R2319 0
R2351 47k
R2357 47k
R2352 47k
R2358 47k
R2359 47k
R2353 47k
C2346 10V 1u
C2347 35V 47u
R2364 47k
R2368 47k
R2365 47k
R2369 47k
R2366 47k
R2370 47k
R2363 4.7k
C2352 50V 680p
C2351 50V 1000p
C2344 50V 1000p
R2360 4.7k
C2337 50V 680p
C2341 50V 1800p
C2338 50V 5600p
C2342 50V 0.015u
C2340 16V 0.47u
C2343 16V 0.15u
C2348 50V 1800p
C2349 50V 0.015u
C2353 50V 5600p
C2350 16V 0.15u
C2355 16V 0.47u
Vcc
OUT-2
-IN-2
+IN-2
NF3-2
IN3-2
NF2-2
IN2-2
NF1-2
IN1-2
GND
OUT-1
-IN-1
+IN-1
NF3-1
IN3-1
NF2-1
IN2-1
NF1-1
IN1-1
L
R
IC2301
C1BB00000969
EQUALIZER
R2308 3.9k
R2312 10k
C2310 0
R2316 0
R2309 3.9k
R2313 10k
C2311 0
R2317 0
10Vs(W)
STB5V
MAIN9V
RESET
MON_SOUND_DEF
MAIN_DEF
SP_MUTE
SUBMUTE
SOUND_SOS
L_IN
R_IN
C2429 25V 0.1u
C2428 25V 0.1u
Z50
TO
H-BOARD
(H50)
5V_STB
9V_MAIN
C2430 10V 1u
D2300 MA2J11100L
D2301 MA2J11100L
D2304 MA2J11100L
D2303 MA2J11100L
D2333 MA2J11100L
Q2300 2SC584500L
Q2301 2SD0601ASL
Q2302 2SC584500L
R2302 22k
R2303 5.6k
R2304 9.1k
R2340 47k
R2305 470
R2306 820
R2307 100k
R2310 180k
R2311 820
C2307 16V 100u
MAIN9V
STB5V
R2390 20k
R2391 10k
C2372 50V 10u
C2374 50V 10u
R2396 10k
Q2314 2SC584500L
R2388 1k
R2389 1k
Q2315 2SC584500L
Q2316 2SC584500L
R2392 22k
R2393 10k
Q2317 2SC584500L

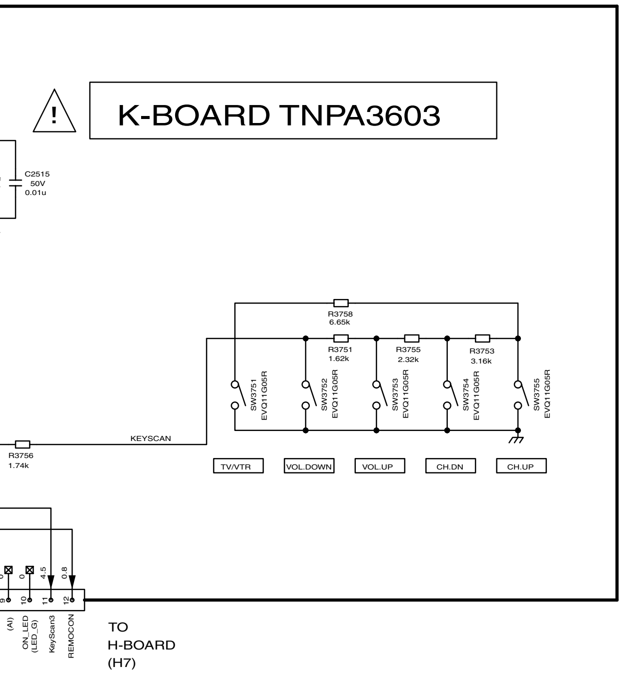
TH-42PM50U
Z-Board Schematic Diagram


IC2305
C1BB00000818
WOOFER AMP L
Thermal Pad
TPA3001D1PWPR
IC2306
C1BB00000818
WOOFER AMP R
Thermal Pad
TPA3001D1PWPR
Vcc
VREF
BYPASS
COSC
ROSC
AGND
BSP
PVcc
OUTP
PGND
INN
INP
GAIN0
GAIN1
SHUTDOWN
PGND
VCLAMP
BSN
PVcc
OUTN
PGND
W_L
R2342 0
C2449 25V 220u
C2497 25V 1u
C2445 25V 1u
C2457 25V 1u
C2441 50V 220p
R2460 120k
R2448 51
C2481 25V 0.22u
C2453 25V 1u
D2319 MA2J72900L
D2315 MA2J72900L
R2468 2k
C2433 16V 0.47u
R2444 1k
C2437 16V 0.47u
C2473 25V 1u
C2477 25V 1u
R2449 51
C2482 25V 0.22u
R2450 100
R2394 20k
R2395 10k
L2316 J0JJC0000011
L2305 G0A100ZA0033
R2464 12
C2461 50V 3300p
C2376 50V 1000p
C2465 25V 1u
L2317 J0JJC0000011
L2312 G0A100ZA0033
R2488 12
C2489 50V 3300p
C2377 50V 1000p
C2469 25V 1u
C2386 50V 1000p
C2387 50V 1000p
5.3
W_L-
W_L+
NC
W_R-
W_R+
Z2
TO SPEAKER
C2384 50V 1000p
C2385 50V 1000p
R2343 0
C2450 25V 220u
C2498 25V 1u
C2446 25V 1u
C2458 25V 1u
C2442 50V 220p
R2461 120k
R2451 51
C2483 25V 0.22u
C2454 25V 1u
D2320 MA2J72900L
D2316 MA2J72900L
L2318 J0JJC0000011
L2306 G0A100ZA0033
R2465 12
C2462 50V 3300p
C2378 50V 1000p
C2466 25V 1u
L2319 J0JJC0000011
L2313 G0A100ZA0033
R2489 12
C2490 50V 3300p
C2379 50V 1000p
C2470 25V 1u
R2469 2k
C2434 16V 0.47u
R2445 1k
C2438 16V 0.47u
C2474 25V 1u
R2452 51
C2484 25V 0.22u
C2478 25V 1u
R2453 100
R2368 47k
R2369 47k
R2370 47k
JS2304 ERJ6GEY0R00V
JS2305 ERJ6GEY0R00V
JS2306 ERJ6GEY0R00V
JS2307 ERJ6GEY0R00V
JS2308 ERJ6GEY0R00V
JS2309 ERJ6GEY0R00V
JS2310 ERJ6GEY0R00V
JS2311 ERJ6GEY0R00V
JS2312 ERJ3GEY0R00V
JS2317 ERJ6GEY0R00V
JS2318 ERJ6GEY0R00V
JS2319 ERJ6GEY0R00V
JS2320 ERJ6GEY0R00V
JS2321 ERJ6GEY0R00V
JS2322 ERJ6GEY0R00V
JS2323 ERJ6GEY0R00V
JS2324 ERJ6GEY0R00V
JS2329 ERJ6GEY0R00V
JS2330 ERJ6GEY0R00V
JS2331 ERJ6GEY0R00V
JS2332 ERJ6GEY0R00V
MAIN9V
STB5V
10Vs(W)
Q2323 2SA207700L
R2322 10k
R2324 10k
C2301 50V 0.1u
Q2324 2SC584500L
R2320 2.2k
R2499 4.7k
R2326 100
C2300 50V 0.1u
D2332 MA2J11100L
R2331 470
C2374 50V 10u
C2372 50V 10u
R2396 10k
R2397 47k
R2393 10k
R2398 47k
Q2317 2SC584500L
Z-BOARD TNPA3621AB
4
5
6
7
8

TH-42PM50U
Z-Board Schematic Diagram

13.18. K and S-Board Schematic Diagram

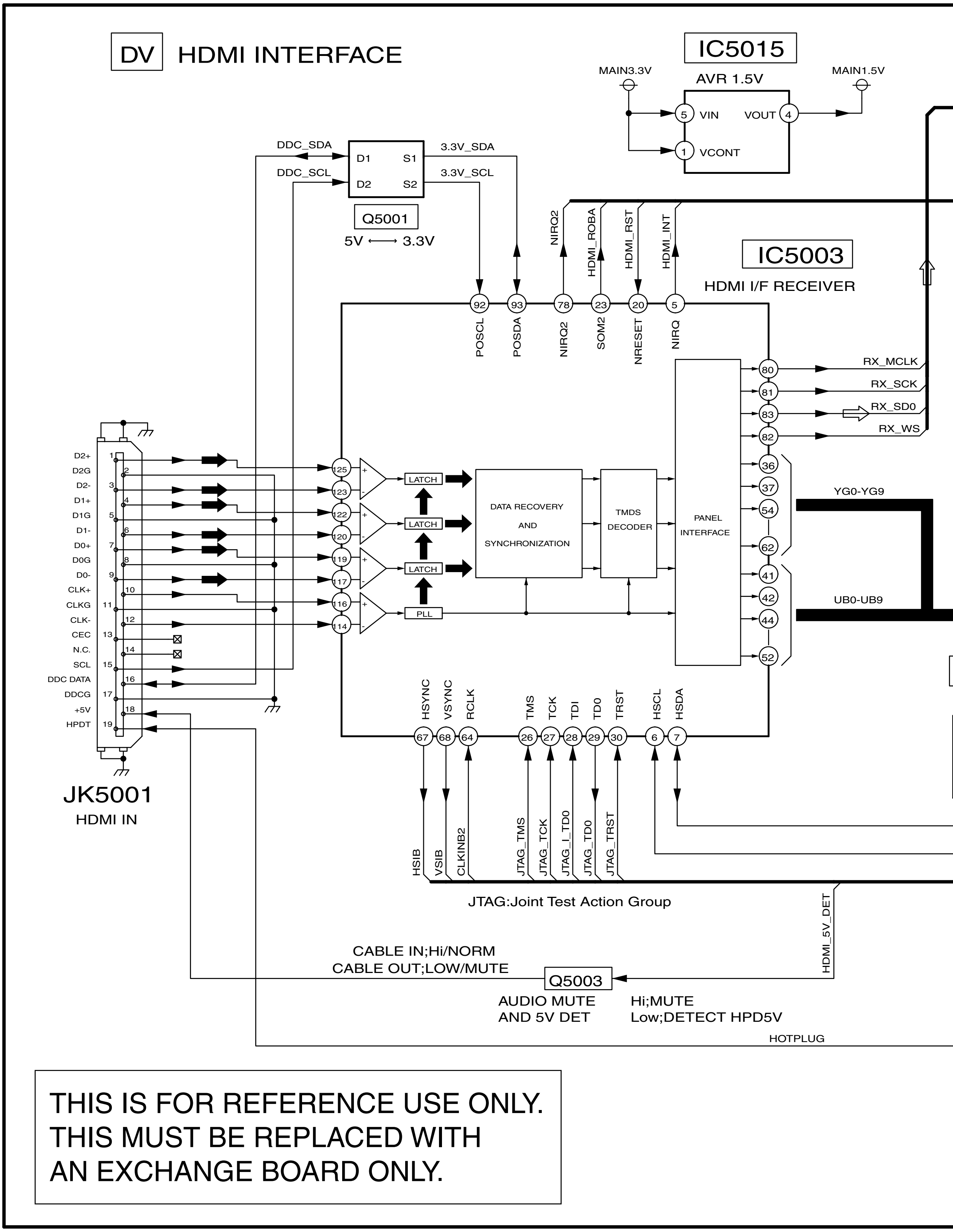

K-
RM2510
PNA4601M05TV
REMOTE RECEIVER
VCC
GND
VOUT
C2512
6.3V
10u
D2512
MA8056MTX
STB5V
R2517
47
R2516
22k
Q2510
2SD0601A0L
R2542
100
R2520
220k
D2513
MA3X152K0L
D2514
MA3X152K0L
R2525
10k
R2553
1k
Q2519
2SB0709A0L
R2557
3.3k
D2520
B3AAA0000755
POWER LED
5V
D2524
MA8056MTX
C2515
50V
0.01u
Q2511
2SD0601A0L
R2524
22k
D2523
MA3X152K0L
STBY5V
R2550
0
SUB5V
R3756
1.74k
KEYS
R2526
5.6k
R2545
100
K2
GND
KeyScan3
K1
KEYSCAN2
STBY5V_M
GND
GND
SUB5V
GND
KEYSCAN
STB_LED
(LED_R)
(AI)
ON_LED
(LED_G)
KeyScan3
REMOCON
TO
H-BOA
(H7)
S2
SW2500
K0F122A00172
POWER SW
S-BOARD
TNPA3604
R2501
0
S1
STB_PS
GND
12V
TO
SS-BOARD
(SS34)


K-BOARD TNPA3603
C2515
50V
0.01u
R3758
6.65k
R3751
1.62k
R3755
2.32k
R3753
3.16k
SW3751
EVQ11G05R
SW3752
EVQ11G05R
SW3753
EVQ11G05R
SW3754
EVQ11G05R
SW3755
EVQ11G05R
KEYSCAN
R3756
1.74k
TV/VTR
VOL.DOWN
VOL.UP
CH.DN
CH.UP
0
4.5
0.8
9
10
11
12
(AI)
ON_LED
(LED_G)
KeyScan3
REMOCON
TO
H-BOARD
(H7)

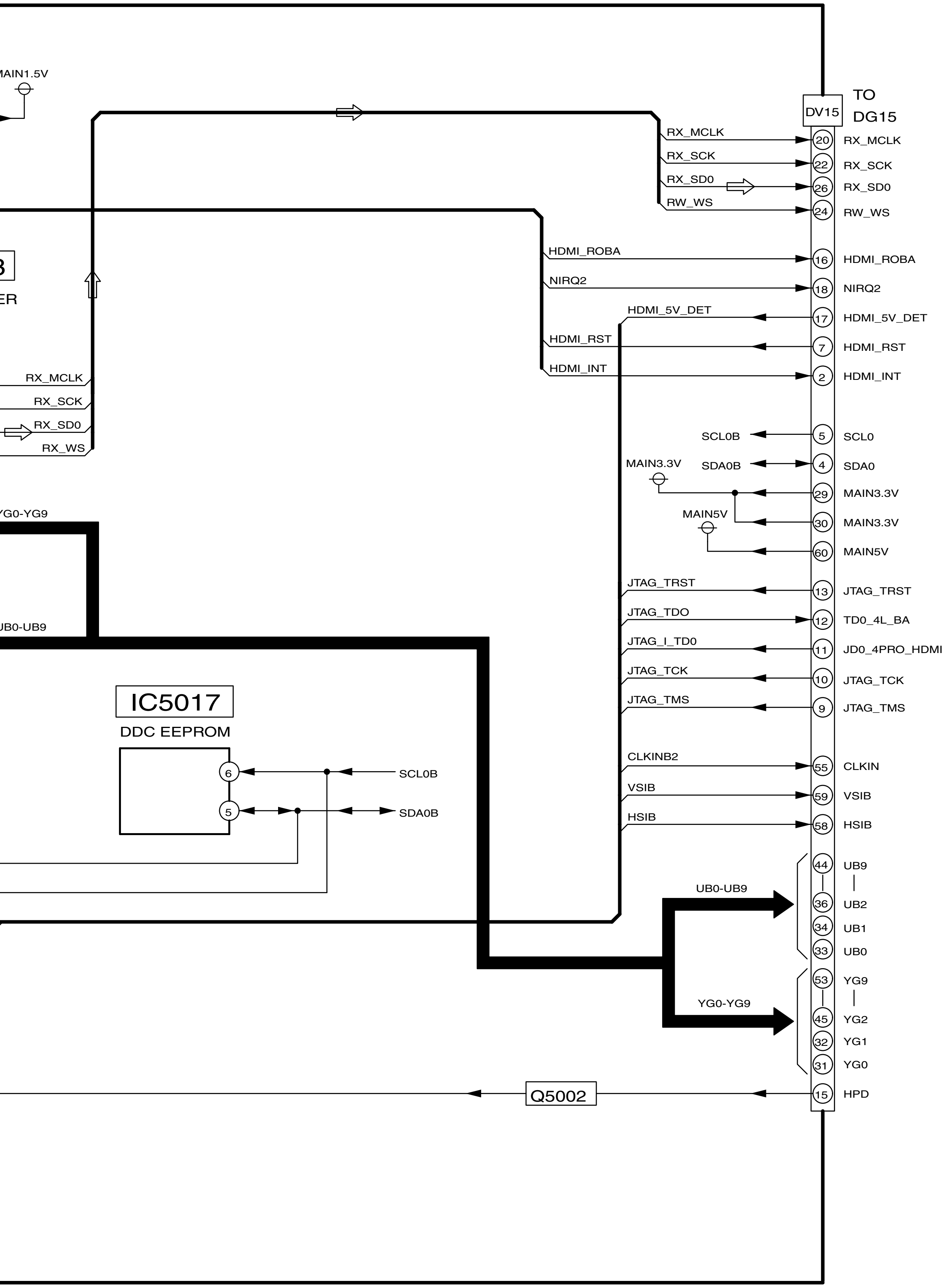
TH-42PM50U
K and S-Board Schematic Diagram

5 6 7 8

13.19. DV-Board Block Diagram

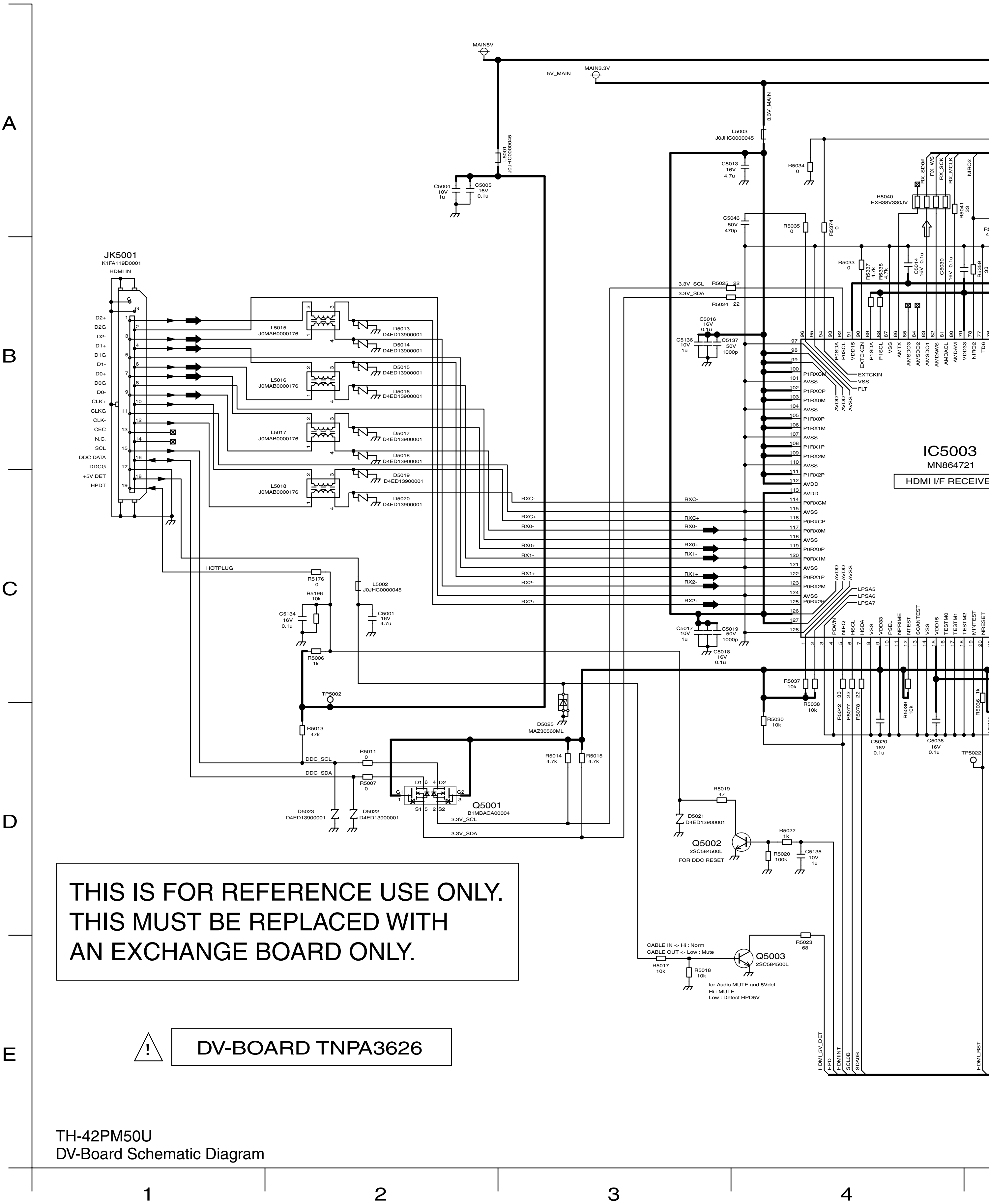

DV
HDMI INTERFACE
IC5015
AVR 1.5V
MAIN3.3V
MAIN1.5V
VIN
VOUT
VCONT
5
4
1
DDC_SDA
DDC_SCL
D1
S1
D2
S2
3.3V_SDA
3.3V_SCL
Q5001
5V ⟷ 3.3V
NIRQ2
HDMI_ROBA
HDMI_RST
HDMI_INT
IC5003
HDMI I/F RECEIVER
92
93
78
23
20
5
POSCL
POSDA
NIRQ2
SOM2
NRESET
NIRQ
RX_MCLK
RX_SCK
RX_SD0
RX_WS
80
81
83
82
36
37
54
62
41
42
44
52
YG0-YG9
UB0-UB9
D2+
D2G
D2-
D1+
D1G
D1-
D0+
D0G
D0-
CLK+
CLKG
CLK-
CEC
N.C.
SCL
DDC DATA
DDCG
+5V
HPDT
125
123
122
120
119
117
116
114
LATCH
LATCH
LATCH
PLL
DATA RECOVERY AND SYNCHRONIZATION
TMDS DECODER
PANEL INTERFACE
JK5001
HDMI IN
HSYNC
VSYNC
RCLK
TMS
TCK
TDI
TD0
TRST
HSCL
HSDA
67
68
64
26
27
28
29
30
6
7
HSIB
VSIB
CLKINB2
JTAG_TMS
JTAG_TCK
JTAG_I_TD0
JTAG_TD0
JTAG_TRST
JTAG:Joint Test Action Group
HDMI_5V_DET
CABLE IN;Hi/NORM
CABLE OUT;LOW/MUTE
Q5003
AUDIO MUTE AND 5V DET
Hi;MUTE
Low;DETECT HPD5V
HOTPLUG

THIS IS FOR REFERENCE USE ONLY.
THIS MUST BE REPLACED WITH
AN EXCHANGE BOARD ONLY.


MAIN1.5V
TO
DG15
DV15
RX_MCLK
RX_SCK
RX_SD0
RW_WS
HDMI_ROBA
NIRQ2
HDMI_5V_DET
HDMI_RST
HDMI_INT
RX_MCLK
RX_SCK
RX_SD0
RX_WS
SCL0B
SDA0B
MAIN3.3V
MAIN5V
JTAG_TRST
JTAG_TDO
JTAG_I_TD0
JTAG_TCK
JTAG_TMS
CLKINB2
VSIB
HSIB
UB0-UB9
YG0-YG9
YG0-YG9
UB0-UB9
IC5017
DDC EEPROM
6
5
SCL0B
SDA0B
Q5002
20 RX_MCLK
22 RX_SCK
26 RX_SD0
24 RW_WS
16 HDMI_ROBA
18 NIRQ2
17 HDMI_5V_DET
7 HDMI_RST
2 HDMI_INT
5 SCL0
4 SDA0
29 MAIN3.3V
30 MAIN3.3V
60 MAIN5V
13 JTAG_TRST
12 TD0_4L_BA
11 JD0_4PRO_HDMI
10 JTAG_TCK
9 JTAG_TMS
55 CLKIN
59 VSIB
58 HSIB
44 UB9
36 UB2
34 UB1
33 UB0
53 YG9
45 YG2
32 YG1
31 YG0
15 HPD

TH-42PM50U
DV-Board Block Diagram

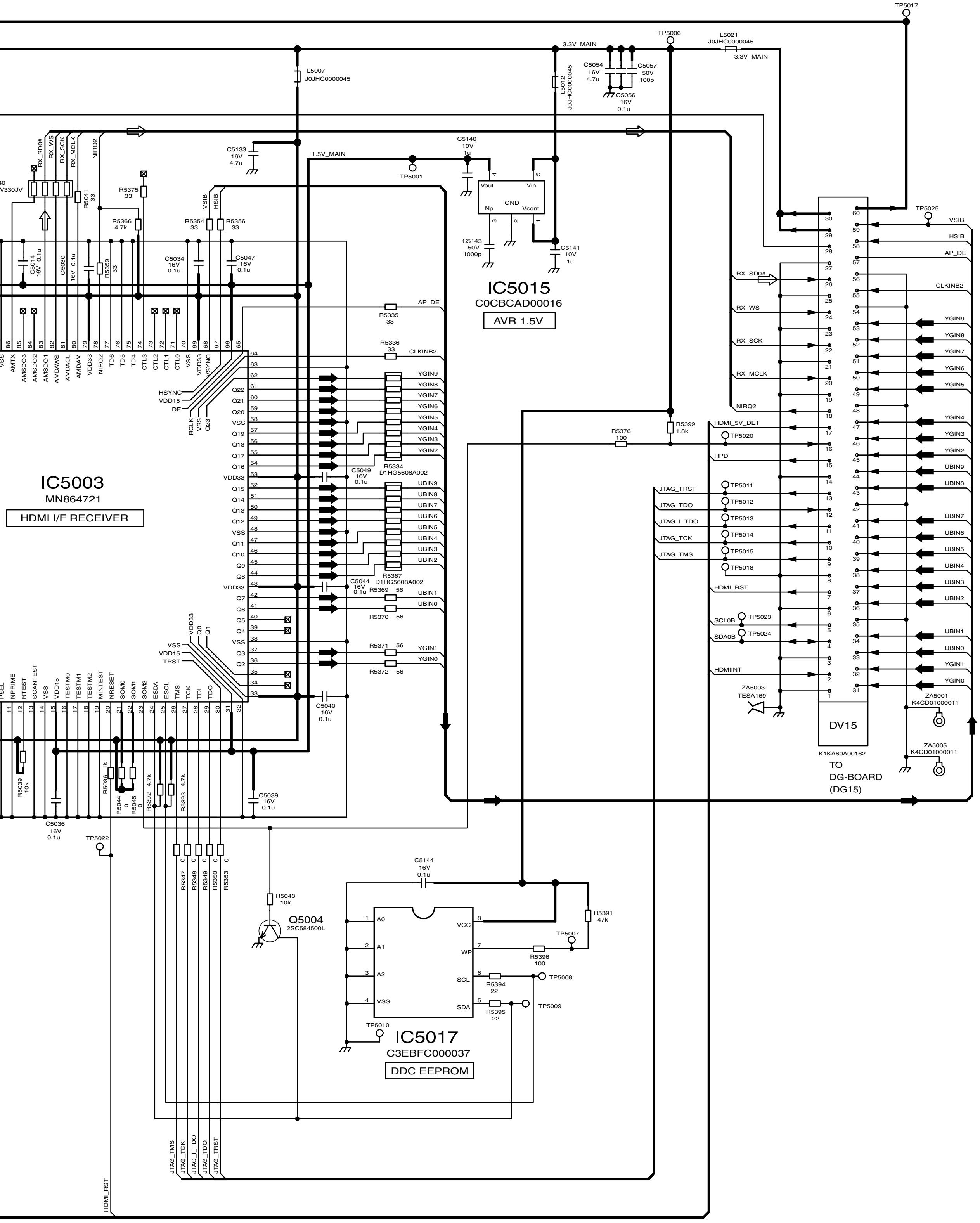
13.20. DV-Board Schematic Diagram


A
B
C
D
E
1
2
3
4
MAIN5V
5V_MAIN
MAIN3.3V
3.3V_MAIN
L5001
J0JHC0000045
C5004
10V
1u
C5005
16V
0.1u
L5003
J0JHC0000045
C5013
16V
4.7u
R5034
0
C5046
50V
470p
R5035
0
R5374
0
R5040
EXB38V330JV
RX_SD0#
RX_WS
RX_SCK
RX_MCLK
NIRQ2
R5041
33
R5033
0
R5337
4.7k
R5338
4.7k
C5014
16V 0.1u
C5030
16V 0.1u
R5359
33
JK5001
K1FA119D0001
HDMI IN
D2+
D2G
D2-
D1+
D1G
D1-
D0+
D0G
D0-
CLK+
CLKG
CLK-
CEC
N.C.
SCL
DDC DATA
DDCG
+5V DET
HPDT
L5015
J0MAB0000176
D5013
D4ED13900001
D5014
D4ED13900001
L5016
J0MAB0000176
D5015
D4ED13900001
D5016
D4ED13900001
L5017
J0MAB0000176
D5017
D4ED13900001
D5018
D4ED13900001
L5018
J0MAB0000176
D5019
D4ED13900001
D5020
D4ED13900001
3.3V_SCL
3.3V_SDA
R5025 22
R5024 22
C5016
16V
0.1u
C5136
10V
1u
C5137
50V
1000p
RXC-
RXC+
RX0-
RX0+
RX1-
RX1+
RX2-
RX2+
HOTPLUG
R5176
0
R5196
10k
L5002
J0JHC0000045
C5134
16V
0.1u
C5001
16V
4.7u
R5006
1k
TP5002
R5013
47k
D5025
MAZ30560ML
R5011
0
R5007
0
DDC_SCL
DDC_SDA
D5023
D4ED13900001
D5022
D4ED13900001
Q5001
B1MBACA00004
3.3V_SCL
3.3V_SDA
R5014
4.7k
R5015
4.7k
C5017
10V
1u
C5019
50V
1000p
C5018
16V
0.1u
IC5003
MN864721
HDMI I/F RECEIVE
P0SDA
P0SCL
VDD15
EXTCKEN
P1SDA
P1SCL
VSS
AMTX
AMSDO3
AMSDO2
AMSDO1
AMDAWS
AMDACL
AMDAM
VDD33
NIRQ2
TD6
P1RXCM
AVSS
P1RXCP
P1RXC0M
P1RX0P
P1RX1M
P1RX1P
P1RX2M
P1RX2P
AVDD
P0RXCM
P0RXCP
P0RX0M
P0RX0P
P0RX1M
P0RX1P
P0RX2M
P0RX2P
EXTCKIN
VSS
FLT
LPSA5
LPSA6
LPSA7
PDWN
NIRQ
HSCL
HSDA
VSS
VDD33
FSEL
NPRIME
NTEST
SCANTEST
VSS
VDD15
TESTM0
TESTM1
TESTM2
MINTEST
NRESET
R5037
10k
R5038
10k
R5030
10k
R5042 33
R5077 22
R5078 22
R5039
10k
R5036 1k
C5020
16V
0.1u
C5036
16V
0.1u
TP5022
R5019
47
D5021
D4ED13900001
Q5002
2SC584500L
FOR DDC RESET
R5022
1k
R5020
100k
C5135
10V
1u
R5023
68
CABLE IN -> Hi : Norm
CABLE OUT -> Low : Mute
R5017
10k
R5018
10k
Q5003
2SC584500L
for Audio MUTE and 5Vdet
Hi : MUTE
Low : Detect HPD5V
HDMI_5V_DET
HPD
HDMIINT
SCL0B
SDA0B
HDMI_RST

THIS IS FOR REFERENCE USE ONLY.
THIS MUST BE REPLACED WITH
AN EXCHANGE BOARD ONLY.

⚠ DV-BOARD TNPA3626

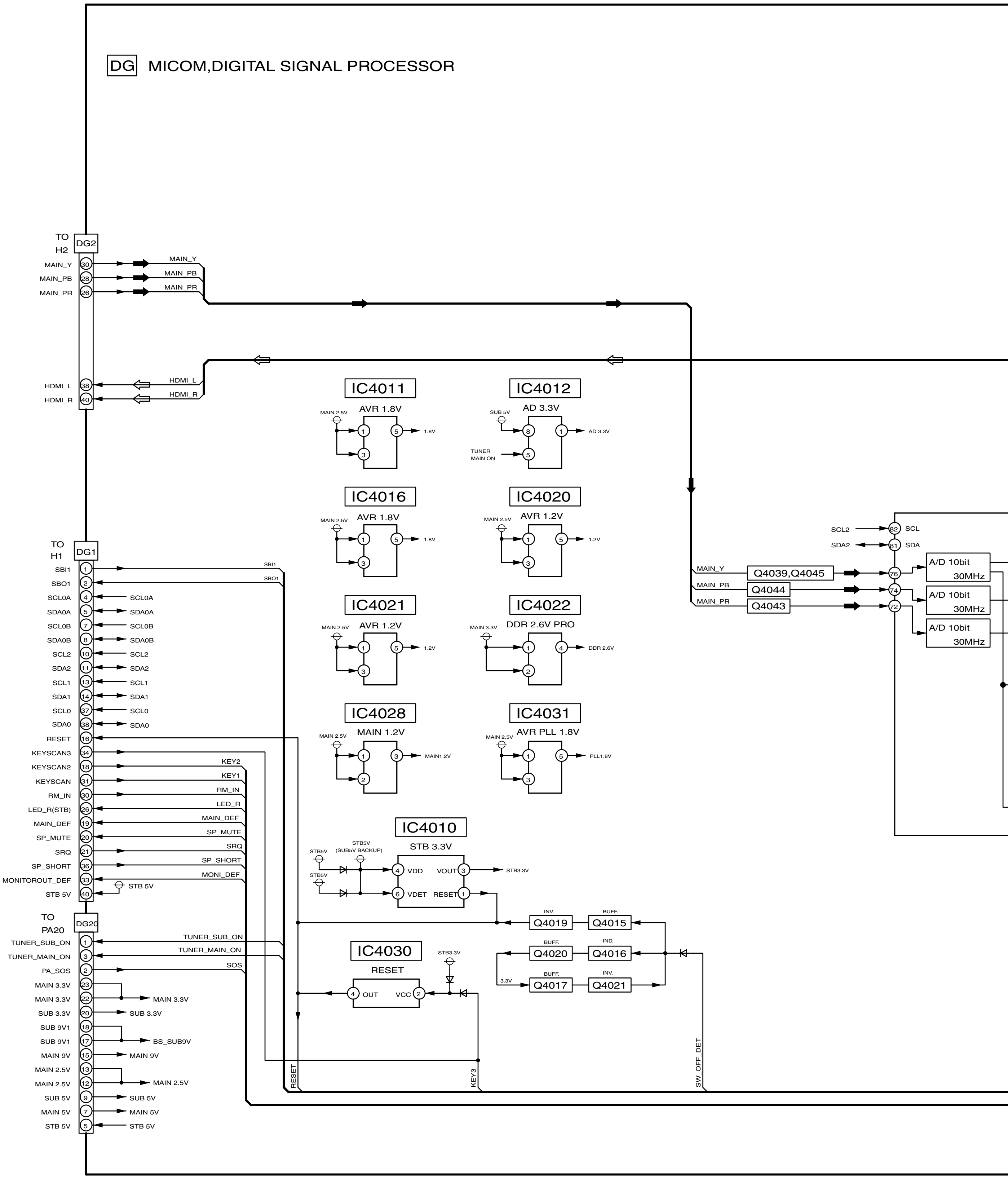
TH-42PM50U
DV-Board Schematic Diagram


IC5003
MN864721
HDMI I/F RECEIVER
IC5015
C0CBCAD00016
AVR 1.5V
IC5017
C3EBFC000037
DDC EEPROM
Q5004
2SC584500L
DV15
K1KA60A00162
TO
DG-BOARD
(DG15)
3.3V_MAIN
1.5V_MAIN
L5007
J0JHC0000045
L5012
J0JHC0000045
L5021
J0JHC0000045
TP5017
TP5006
TP5001
TP5025
TP5020
TP5011
TP5012
TP5013
TP5014
TP5015
TP5018
TP5023
TP5024
TP5022
TP5007
TP5008
TP5009
TP5010
ZA5003
TESA169
ZA5001
K4CD01000011
ZA5005
K4CD01000011
R5334
D1HG5608A002
R5367
D1HG5608A002
HDMI_5V_DET
HPD
JTAG_TRST
JTAG_TDO
JTAG_I_TDO
JTAG_TCK
JTAG_TMS
HDMI_RST
SCL0B
SDA0B
HDMIINT
RX_SD0#
RX_WS
RX_SCK
RX_MCLK
NIRQ2
VSIB
HSIB
AP_DE
CLKINB2
YGIN0–YGIN9
UBIN0–UBIN9

TH-42PM50U
DV-Board Schematic Diagram

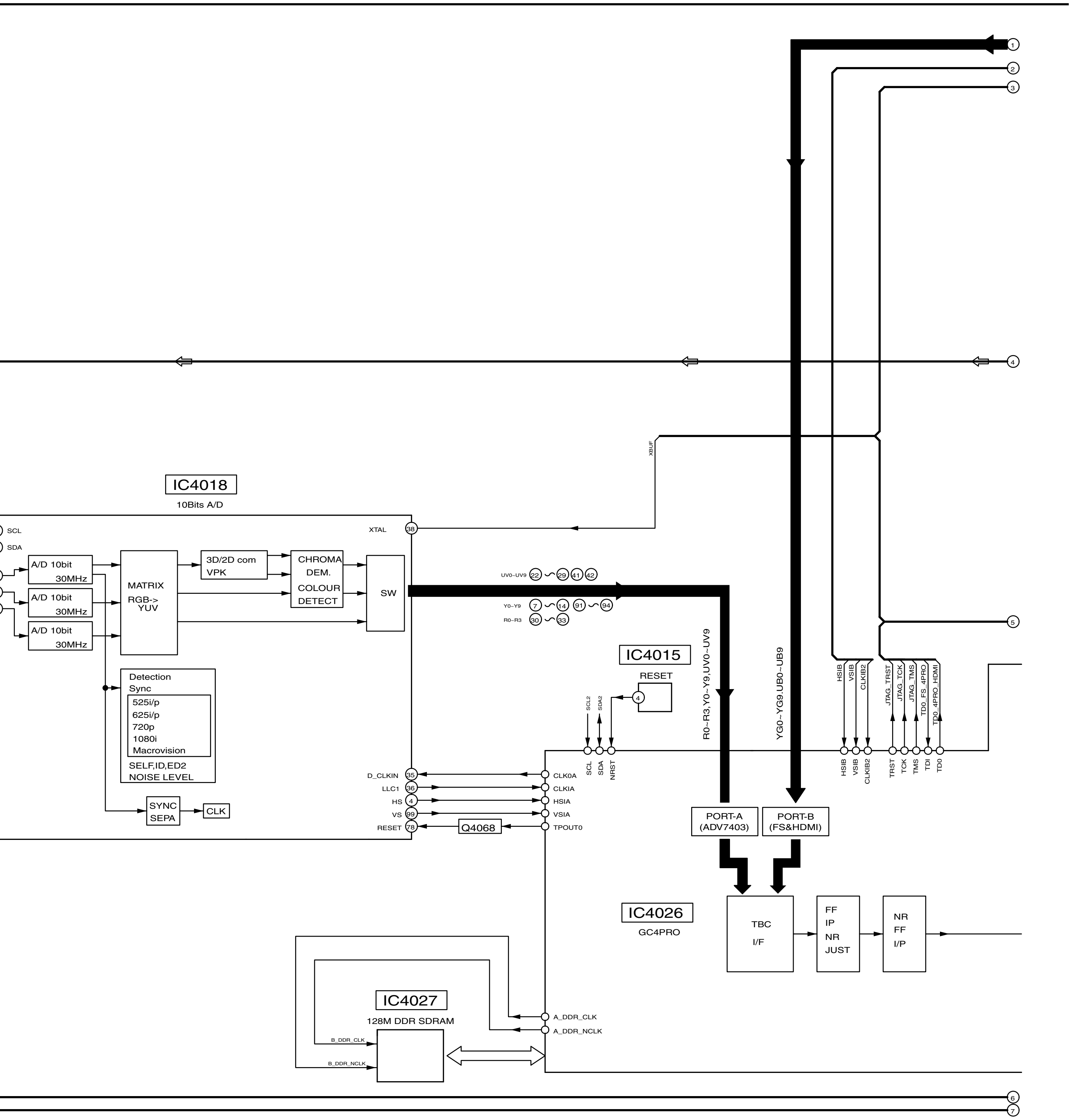
5 6 7 8

13.21. DG-Board (1 of 2) Block Diagram



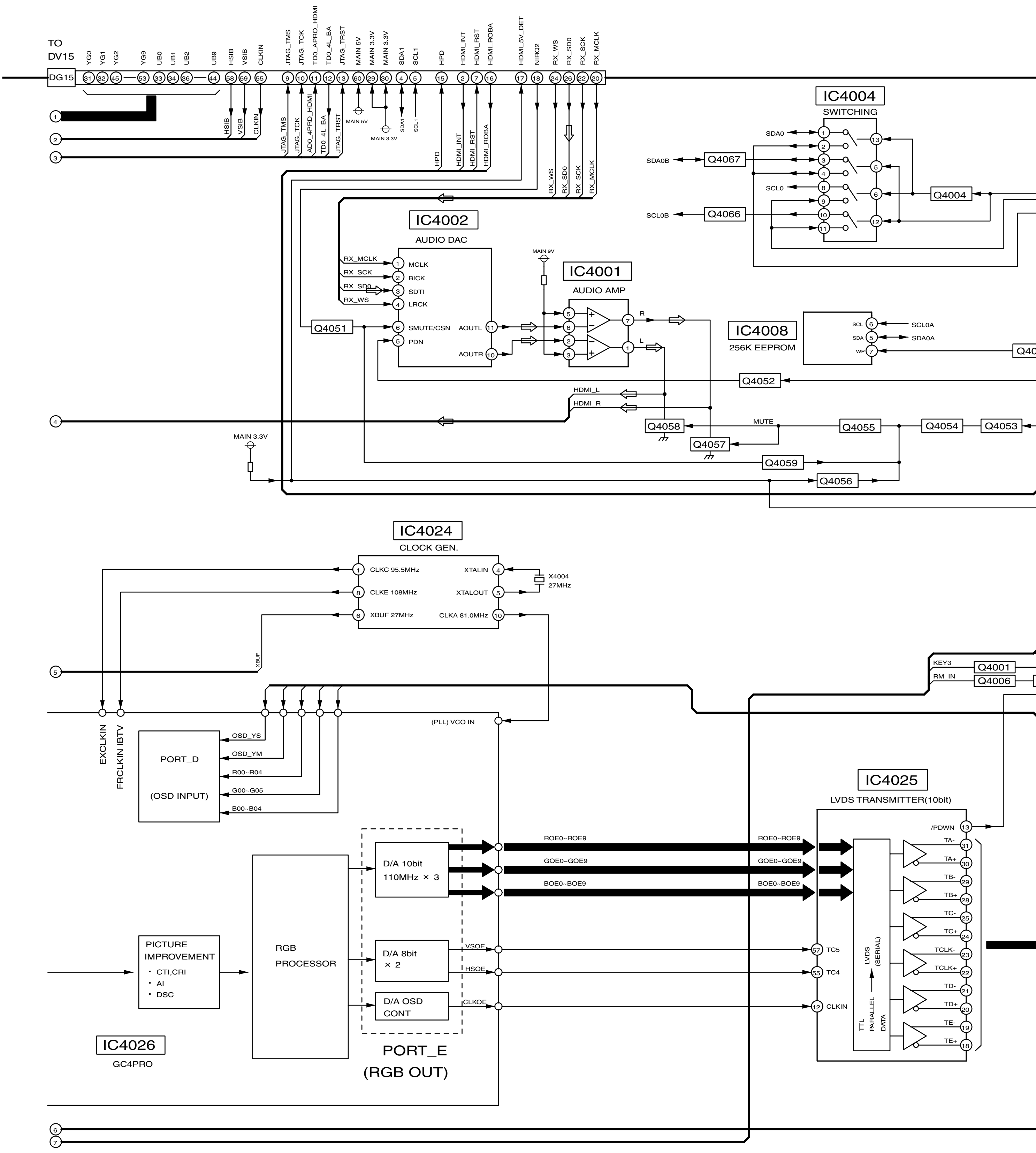
DG
MICOM,DIGITAL SIGNAL PROCESSOR
TO H2
DG2
MAIN_Y 30
MAIN_PB 28
MAIN_PR 26
MAIN_Y
MAIN_PB
MAIN_PR
HDMI_L 38
HDMI_R 40
HDMI_L
HDMI_R
IC4011
AVR 1.8V
MAIN 2.5V
1.8V
IC4012
AD 3.3V
SUB 5V
TUNER MAIN ON
AD 3.3V
IC4016
AVR 1.8V
MAIN 2.5V
1.8V
IC4020
AVR 1.2V
MAIN 2.5V
1.2V
IC4021
AVR 1.2V
MAIN 2.5V
1.2V
IC4022
DDR 2.6V PRO
MAIN 3.3V
DDR 2.6V
IC4028
MAIN 1.2V
MAIN 2.5V
MAIN1.2V
IC4031
AVR PLL 1.8V
MAIN 2.5V
PLL1.8V
IC4010
STB 3.3V
STB5V
STB5V (SUB5V BACKUP)
VDD
VOUT
VDET
RESET
STB3.3V
IC4030
RESET
STB3.3V
OUT
VCC
INV.
Q4019
BUFF.
Q4015
BUFF.
Q4020
IND.
Q4016
3.3V
BUFF.
Q4017
INV.
Q4021
SCL2
SDA2
82 SCL
81 SDA
MAIN_Y
MAIN_PB
MAIN_PR
Q4039,Q4045
Q4044
Q4043
76
74
72
A/D 10bit 30MHz
A/D 10bit 30MHz
A/D 10bit 30MHz
TO H1
DG1
SBI1 1
SBO1 2
SCL0A 4
SDA0A 5
SCL0B 7
SDA0B 8
SCL2 10
SDA2 11
SCL1 13
SDA1 14
SCL0 37
SDA0 38
RESET 16
KEYSCAN3 34
KEYSCAN2 18
KEYSCAN 31
RM_IN 30
LED_R(STB) 26
MAIN_DEF 19
SP_MUTE 20
SRQ 21
SP_SHORT 36
MONITOROUT_DEF 33
STB 5V 40
SBI1
SBO1
SCL0A
SDA0A
SCL0B
SDA0B
SCL2
SDA2
SCL1
SDA1
SCL0
SDA0
KEY2
KEY1
RM_IN
LED_R
MAIN_DEF
SP_MUTE
SRQ
SP_SHORT
MONI_DEF
STB 5V
TO PA20
DG20
TUNER_SUB_ON 1
TUNER_MAIN_ON 3
PA_SOS 2
MAIN 3.3V 23
MAIN 3.3V 22
SUB 3.3V 20
SUB 9V1 18
SUB 9V1 17
MAIN 9V 15
MAIN 2.5V 13
MAIN 2.5V 12
SUB 5V 9
MAIN 5V 7
STB 5V 5
TUNER_SUB_ON
TUNER_MAIN_ON
SOS
MAIN 3.3V
SUB 3.3V
BS_SUB9V
MAIN 9V
MAIN 2.5V
SUB 5V
MAIN 5V
STB 5V
RESET
KEY3
SW_OFF_DET

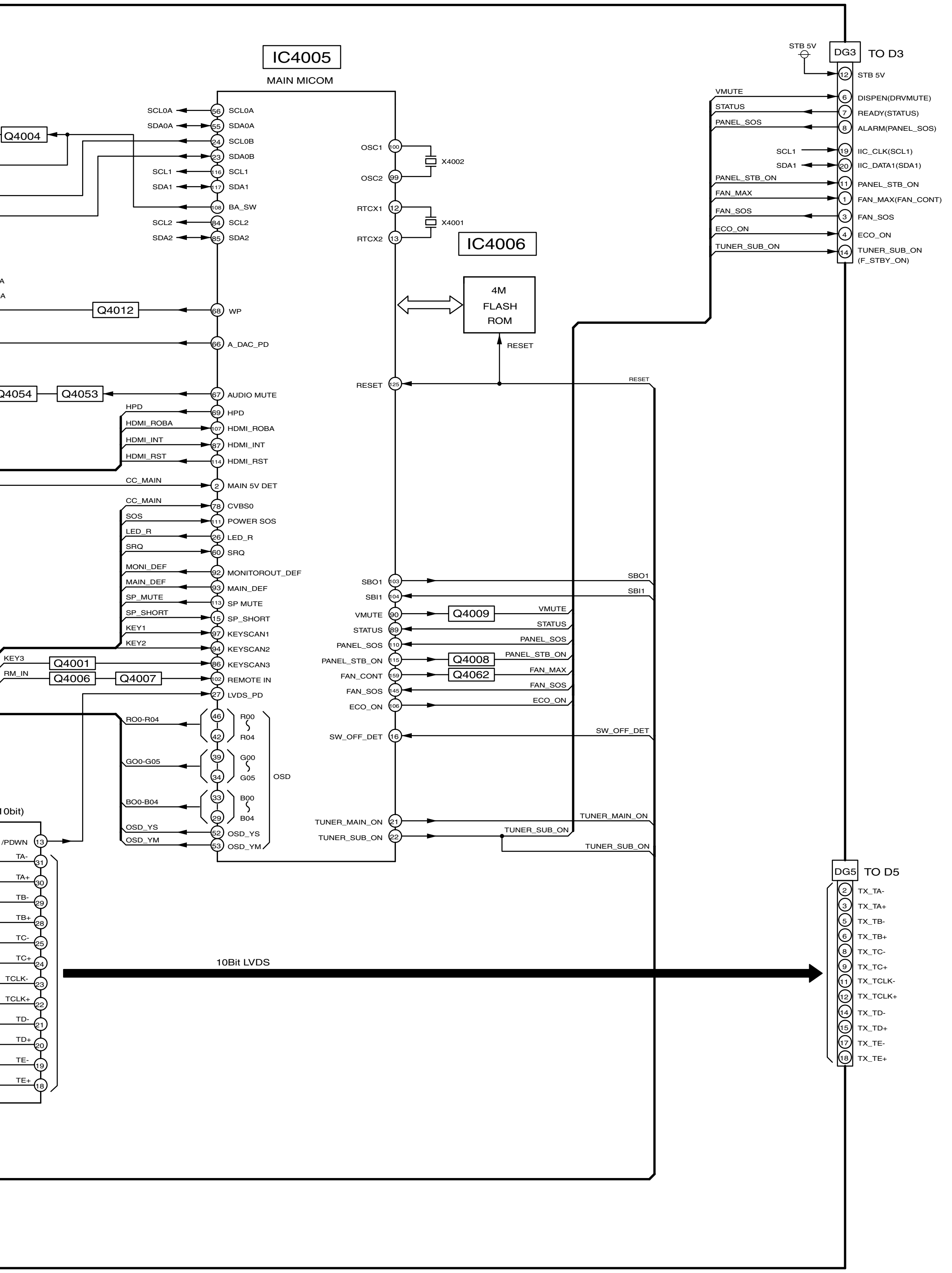
TH-42PM50U
DG-Board(1 of 2) Block Diagram


IC4018
10Bits A/D
SCL
SDA
A/D 10bit 30MHz
A/D 10bit 30MHz
A/D 10bit 30MHz
MATRIX
RGB-> YUV
3D/2D com VPK
CHROMA DEM.
COLOUR DETECT
SW
XTAL
Detection
Sync
525i/p
625i/p
720p
1080i
Macrovision
SELF,ID,ED2
NOISE LEVEL
SYNC SEPA
CLK
D_CLKIN
LLC1
HS
VS
RESET
Q4068
XBUF
UV0~UV9
Y0~Y9
R0~R3
IC4015
RESET
SCL2
SDA2
SCL
SDA
NRST
CLK0A
CLKIA
HSIA
VSIA
TPOUT0
R0~R3,Y0~Y9,UV0~UV9
YG0~YG9,UB0~UB9
HSIB
VSIB
CLKIB2
JTAG_TRST
JTAG_TCK
JTAG_TMS
TD0_FS_4PRO
TD0_4PRO_HDMI
HSIB
VSIB
CLKIB2
TRST
TCK
TMS
TDI
TD0
PORT-A (ADV7403)
PORT-B (FS&HDMI)
IC4026
GC4PRO
TBC
I/F
FF
IP
NR
JUST
NR
FF
I/P
IC4027
128M DDR SDRAM
B_DDR_CLK
B_DDR_NCLK
A_DDR_CLK
A_DDR_NCLK
1
2
3
4
5
6
7

TH-42PM50U
DG-Board(1 of 2) Block Diagram

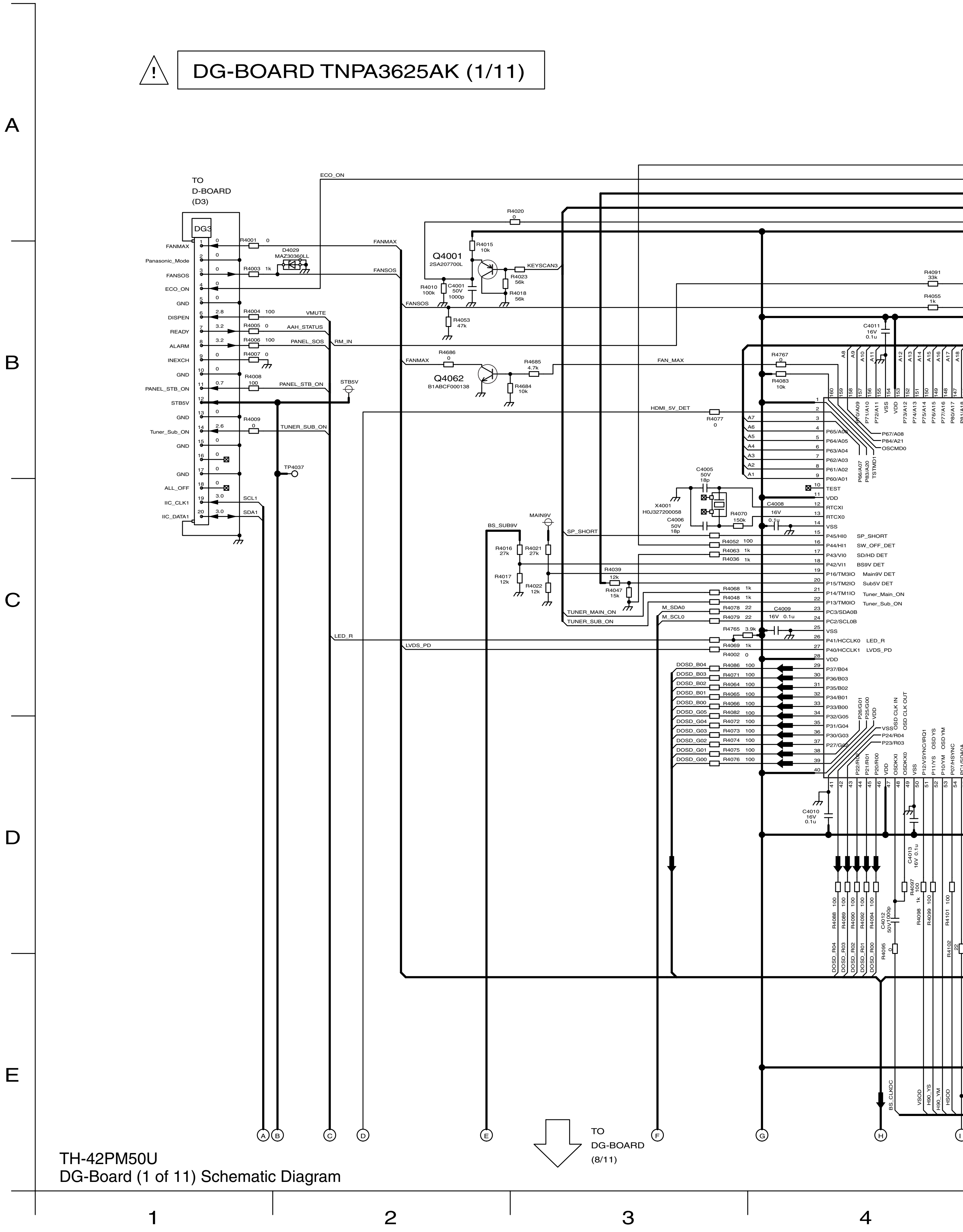
13.22. DG-Board (2 of 2) Block Diagram


TO
DV15
DG15
YG0
YG1
YG2
YG9
UB0
UB1
UB2
UB9
HSIB
VSIB
CLKIN
JTAG_TMS
JTAG_TCK
TD0_APRO_HDMI
TD0_4L_BA
JTAG_TRST
MAIN 5V
MAIN 3.3V
SDA1
SCL1
HPD
HDMI_INT
HDMI_RST
HDMI_ROBA
HDMI_5V_DET
NIRQ2
RX_WS
RX_SD0
RX_SCK
RX_MCLK
AD0_4PRD_HDMI
IC4004
SWITCHING
SDA0
SDA0B
SCL0
SCL0B
Q4067
Q4066
Q4004
IC4002
AUDIO DAC
RX_MCLK
RX_SCK
RX_SD0
RX_WS
MCLK
BICK
SDTI
LRCK
SMUTE/CSN
PDN
AOUTL
AOUTR
Q4051
MAIN 9V
IC4001
AUDIO AMP
R
L
IC4008
256K EEPROM
SCL
SDA
WP
SCL0A
SDA0A
Q40
Q4052
HDMI_L
HDMI_R
MUTE
Q4058
Q4057
Q4055
Q4054
Q4053
Q4059
Q4056
MAIN 3.3V
IC4024
CLOCK GEN.
CLKC 95.5MHz
CLKE 108MHz
XBUF 27MHz
XTALIN
XTALOUT
CLKA 81.0MHz
X4004
27MHz
XBUF
KEY3
RM_IN
Q4001
Q4006
EXCLKIN
FRCLKIN IBTV
(PLL) VCO IN
PORT_D
(OSD INPUT)
OSD_YS
OSD_YM
R00~R04
G00~G05
B00~B04
IC4025
LVDS TRANSMITTER(10bit)
/PDWN
ROE0~ROE9
GOE0~GOE9
BOE0~BOE9
D/A 10bit
110MHz × 3
D/A 8bit
× 2
D/A OSD
CONT
VSOE
HSOE
CLKOE
TC5
TC4
CLKIN
TTL
PARALLEL
DATA
LVDS
(SERIAL)
TA-
TA+
TB-
TB+
TC-
TC+
TCLK-
TCLK+
TD-
TD+
TE-
TE+
PICTURE
IMPROVEMENT
・ CTI,CRI
・ AI
・ DSC
RGB
PROCESSOR
PORT_E
(RGB OUT)
IC4026
GC4PRO
1
2
3
4
5
6
7

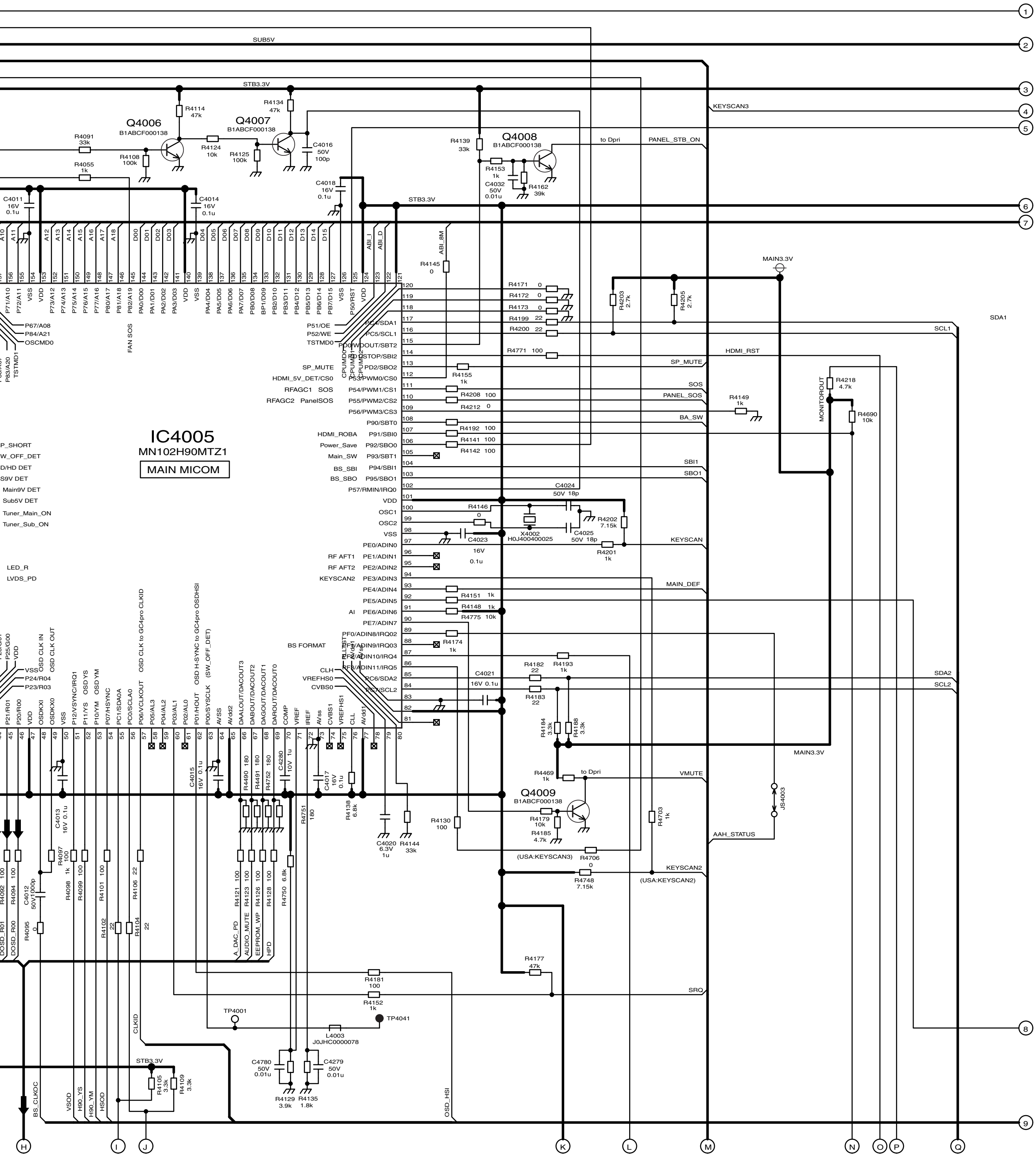

IC4005
MAIN MICOM
SCL0A
SDA0A
Q4004
SCL1
SDA1
SCL2
SDA2
56 SCL0A
55 SDA0A
24 SCL0B
23 SDA0B
16 SCL1
17 SDA1
108 BA_SW
84 SCL2
85 SDA2
OSC1 100
OSC2 99
X4002
RTCX1 12
RTCX2 13
X4001
IC4006
4M FLASH ROM
RESET
Q4012
68 WP
66 A_DAC_PD
Q4054
Q4053
67 AUDIO MUTE
HPD
HDMI_ROBA
HDMI_INT
HDMI_RST
69 HPD
107 HDMI_ROBA
87 HDMI_INT
114 HDMI_RST
CC_MAIN
2 MAIN 5V DET
CC_MAIN
SOS
LED_R
SRQ
MONI_DEF
MAIN_DEF
SP_MUTE
SP_SHORT
KEY1
KEY2
KEY3
RM_IN
Q4001
Q4006
Q4007
78 CVBS0
111 POWER SOS
26 LED_R
80 SRQ
92 MONITOROUT_DEF
93 MAIN_DEF
113 SP MUTE
15 SP_SHORT
97 KEYSCAN1
94 KEYSCAN2
86 KEYSCAN3
102 REMOTE IN
27 LVDS_PD
RESET 125
RESET
SBO1 103
SBI1 104
VMUTE 90
STATUS 89
PANEL_SOS 110
PANEL_STB_ON 115
FAN_CONT 159
FAN_SOS 145
ECO_ON 106
Q4009
Q4008
Q4062
VMUTE
STATUS
PANEL_SOS
PANEL_STB_ON
FAN_MAX
FAN_SOS
ECO_ON
SBO1
SBI1
SW_OFF_DET 16
SW_OFF_DET
RO0-RO4
GO0-GO5
BO0-BO4
OSD_YS
OSD_YM
46 R00
42 R04
39 G00
34 G05
33 B00
29 B04
OSD
52 OSD_YS
53 OSD_YM
TUNER_MAIN_ON 21
TUNER_SUB_ON 22
TUNER_MAIN_ON
TUNER_SUB_ON
TUNER_SUB_ON
10bit)
/PDWN 13
TA- 31
TA+ 30
TB- 29
TB+ 28
TC- 25
TC+ 24
TCLK- 23
TCLK+ 22
TD- 21
TD+ 20
TE- 19
TE+ 18
10Bit LVDS
STB 5V
DG3
TO D3
12 STB 5V
VMUTE
STATUS
PANEL_SOS
6 DISPEN(DRVMUTE)
7 READY(STATUS)
8 ALARM(PANEL_SOS)
SCL1
SDA1
19 IIC_CLK(SCL1)
20 IIC_DATA1(SDA1)
PANEL_STB_ON
FAN_MAX
FAN_SOS
ECO_ON
TUNER_SUB_ON
11 PANEL_STB_ON
1 FAN_MAX(FAN_CONT)
3 FAN_SOS
4 ECO_ON
14 TUNER_SUB_ON (F_STBY_ON)
DG5
TO D5
2 TX_TA-
3 TX_TA+
5 TX_TB-
6 TX_TB+
8 TX_TC-
9 TX_TC+
11 TX_TCLK-
12 TX_TCLK+
14 TX_TD-
15 TX_TD+
17 TX_TE-
18 TX_TE+

TH-42PM50U
DG-Board (2 of 2) Block Diagram

13.23. DG-Board (1 of 11) Schematic Diagram


DG-BOARD TNPA3625AK (1/11)
A
B
C
D
E
1
2
3
4
TO
D-BOARD
(D3)
DG3
FANMAX
Panasonic_Mode
FANSOS
ECO_ON
GND
DISPEN
READY
ALARM
INEXCH
GND
PANEL_STB_ON
STB5V
GND
Tuner_Sub_ON
GND
GND
ALL_OFF
IIC_CLK1
IIC_DATA1
ECO_ON
R4001 0
D4029
MAZ30360LL
R4003 1k
FANMAX
FANSOS
R4004 100
VMUTE
R4005 0
AAH_STATUS
R4006 100
PANEL_SOS
RM_IN
R4007 0
R4008 100
PANEL_STB_ON
STB5V
R4009 0
TUNER_SUB_ON
TP4037
SCL1
SDA1
Q4001
2SA207700L
R4020 0
R4015 10k
KEYSCAN3
R4023 56k
R4018 56k
R4010 100k
C4001 50V 1000p
FANSOS
R4053 47k
FANMAX
R4686 0
Q4062
B1ABCF000138
R4685 4.7k
R4684 10k
FAN_MAX
R4767 0
R4083 10k
R4091 33k
R4055 1k
C4011 16V 0.1u
HDMI_5V_DET
R4077 0
A7
A6
A5
A4
A3
A2
A1
C4005 50V 18p
X4001
H0J327200058
C4006 50V 18p
R4070 150k
C4008 16V 0.1u
MAIN9V
BS_SUB9V
SP_SHORT
R4016 27k
R4021 27k
R4017 12k
R4022 12k
R4039 12k
R4047 15k
R4052 100
R4063 1k
R4036 1k
R4068 1k
R4048 1k
M_SDA0
M_SCL0
R4078 22
R4079 22
C4009 16V 0.1u
TUNER_MAIN_ON
TUNER_SUB_ON
R4765 3.9k
LED_R
LVDS_PD
R4069 1k
R4002 0
DOSD_B04
DOSD_B03
DOSD_B02
DOSD_B01
DOSD_B00
DOSD_G05
DOSD_G04
DOSD_G03
DOSD_G02
DOSD_G01
DOSD_G00
R4086 100
R4071 100
R4064 100
R4065 100
R4066 100
R4082 100
R4072 100
R4073 100
R4074 100
R4075 100
R4076 100
P65/A06
P64/A05
P63/A04
P62/A03
P61/A02
P60/A01
TEST
VDD
RTCXI
RTCXO
VSS
P45/HI0
P44/HI1
P43/VI0
P42/VI1
P16/TM3IO
P15/TM2IO
P14/TM1IO
P13/TM0IO
PC3/SDA0B
PC2/SCL0B
VSS
P41/HCCLK0
P40/HCCLK1
VDD
P37/B04
P36/B03
P35/B02
P34/B01
P33/B00
P32/G05
P31/G04
P30/G03
P27/G02
SP_SHORT
SW_OFF_DET
SD/HD DET
BS9V DET
Main9V DET
Sub5V DET
Tuner_Main_ON
Tuner_Sub_ON
LED_R
LVDS_PD
P67/A08
P84/A21
OSCMD0
P66/A07
P83/A20
TSTMD1
P70/A09
P71/A10
P72/A11
VSS
VDD
P73/A12
P74/A13
P75/A14
P76/A15
P77/A16
P80/A17
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18
P26/G01
P25/G00
VDD
VSS
P24/R04
P23/R03
OSD CLK IN
OSD CLK OUT
P22/R02
P21/R01
P20/R00
VDD
OSDKXI
OSDKXO
VSS
P12/VSYNC/IRQ1
P11/YS
P10/YM
P07/HSYNC
OSD YS
OSD YM
C4010 16V 0.1u
C4013 16V 0.1u
C4012 50V 1000p
R4088 100
R4089 100
R4090 100
R4092 100
R4094 100
R4095 0
R4097 100
R4098 1k
R4099 100
R4101 100
R4102
DOSD_R04
DOSD_R03
DOSD_R02
DOSD_R01
DOSD_R00
BS_CLKOC
VSOD
H90_YS
H90_YM
HSOD
A
B
C
D
E
F
G
H
TO
DG-BOARD
(8/11)

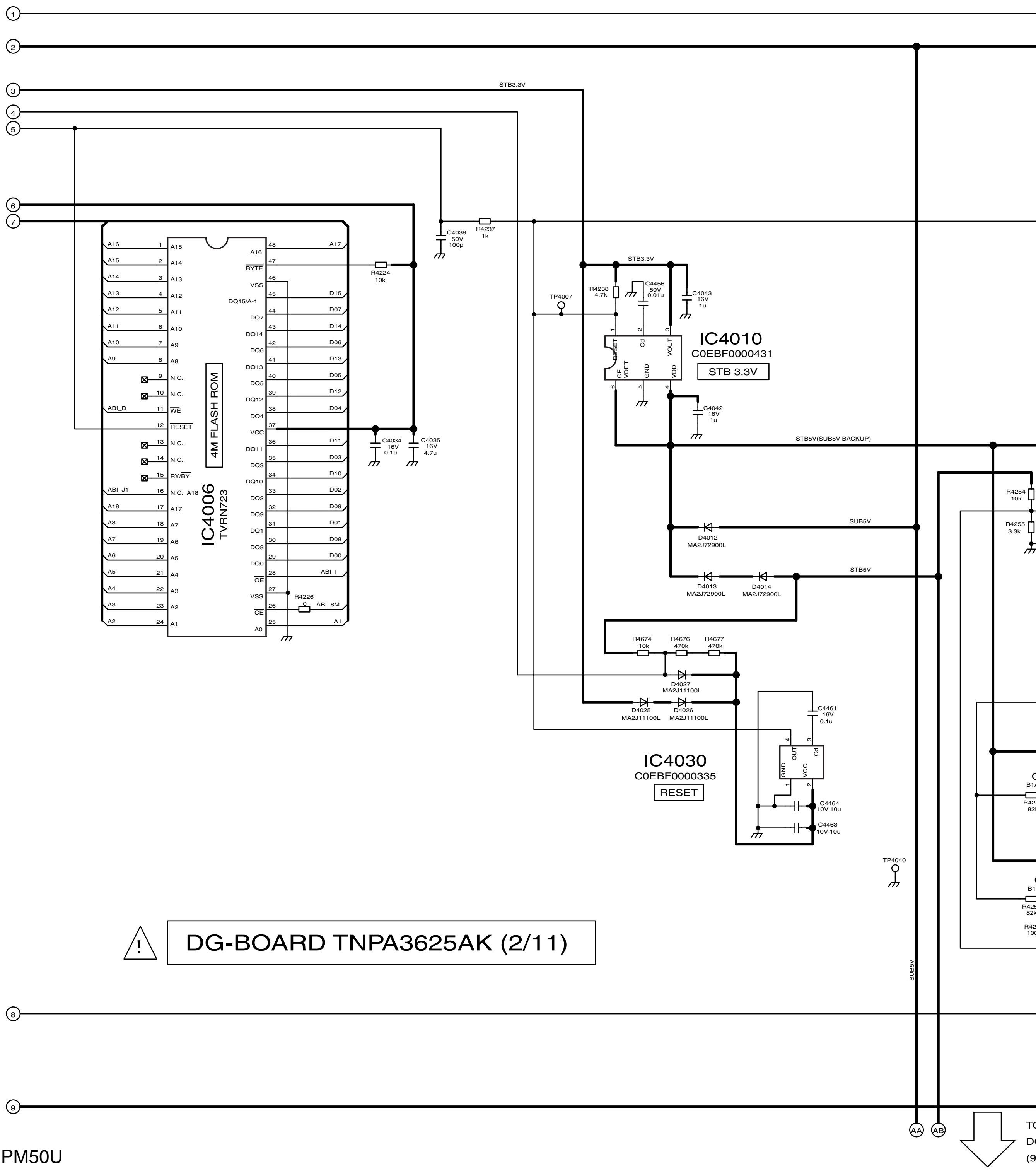
TH-42PM50U
DG-Board (1 of 11) Schematic Diagram


SUB5V
STB3.3V
KEYSCAN3
to Dpri
PANEL_STB_ON
Q4006
B1ABCF000138
Q4007
B1ABCF000138
Q4008
B1ABCF000138
Q4009
B1ABCF000138
IC4005
MN102H90MTZ1
MAIN MICOM
MAIN3.3V
SDA1
SCL1
HDMI_RST
SP_MUTE
SOS
PANEL_SOS
BA_SW
MONITOROUT
SBI1
SBO1
KEYSCAN
MAIN_DEF
SDA2
SCL2
VMUTE
AAH_STATUS
KEYSCAN2
(USA:KEYSCAN3)
(USA:KEYSCAN2)
SRQ
X4002
H0J400400025
TP4001
TP4041
L4003
J0JHC0000078
JS4003
CLKID
BS_CLKOC
VSOD
H90_YS
H90_YM
HSOD
OSD_HSI
A_DAC_PD
AUDIO_MUTE
EEPROM_WP
HPD
P_SHORT
W_OFF_DET
D/HD DET
S9V DET
Main9V DET
Sub5V DET
Tuner_Main_ON
Tuner_Sub_ON
LED_R
LVDS_PD
HDMI_5V_DET/CS0
RFAGC1 SOS
RFAGC2 PanelSOS
HDMI_ROBA
Power_Save
Main_SW
BS_SBI
BS_SBO
RF AFT1
RF AFT2
KEYSCAN2
AI
BS FORMAT
CLH
VREFHS0
CVBS0
1
2
3
4
5
6
7
8
9
H
I
J
K
L
M
N
O
P
Q

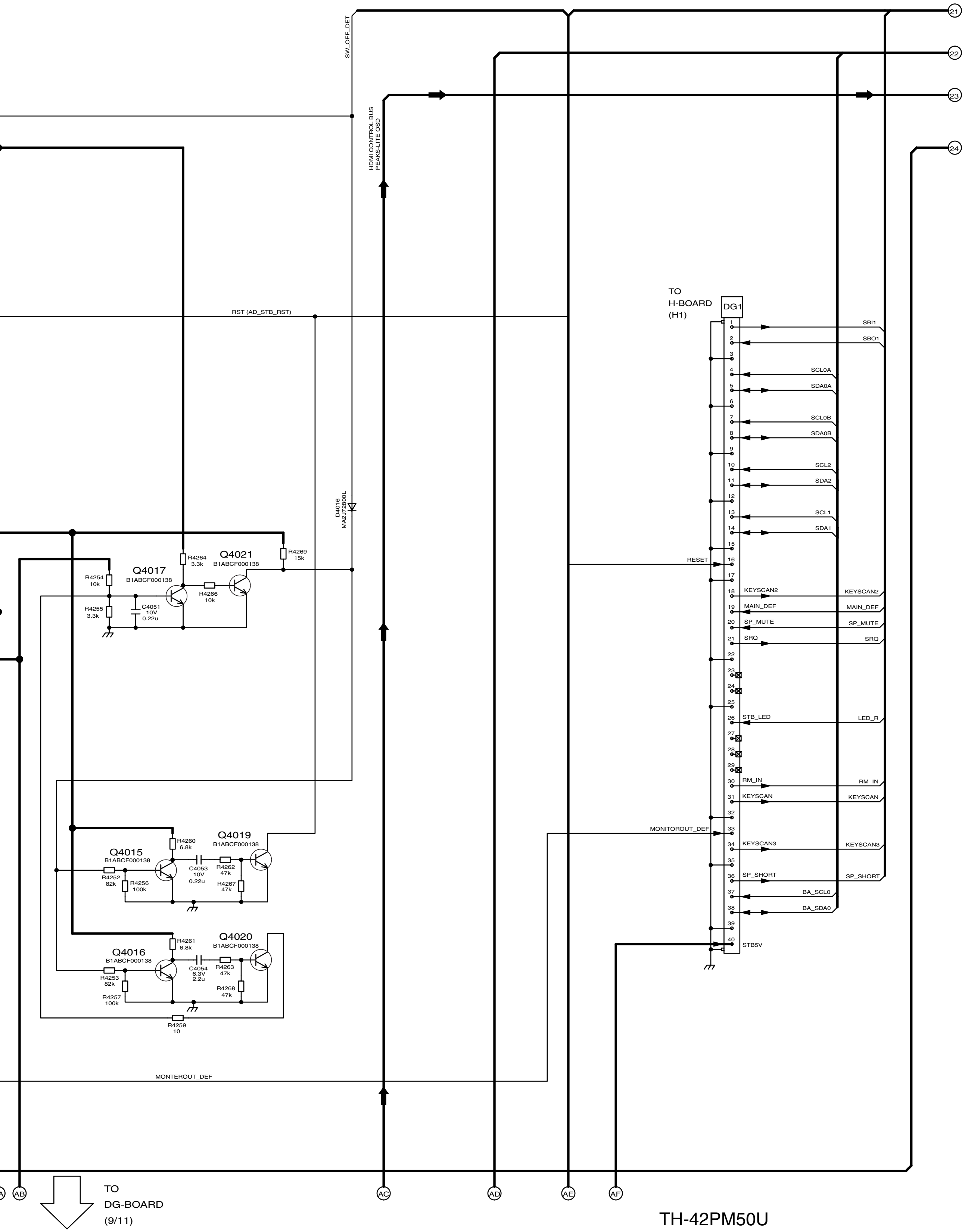
TH-42PM50U
DG-Board (1 of 11) Schematic Diagram

4 5 6 7 8

13.24. DG-Board (2 of 11) Schematic Diagram

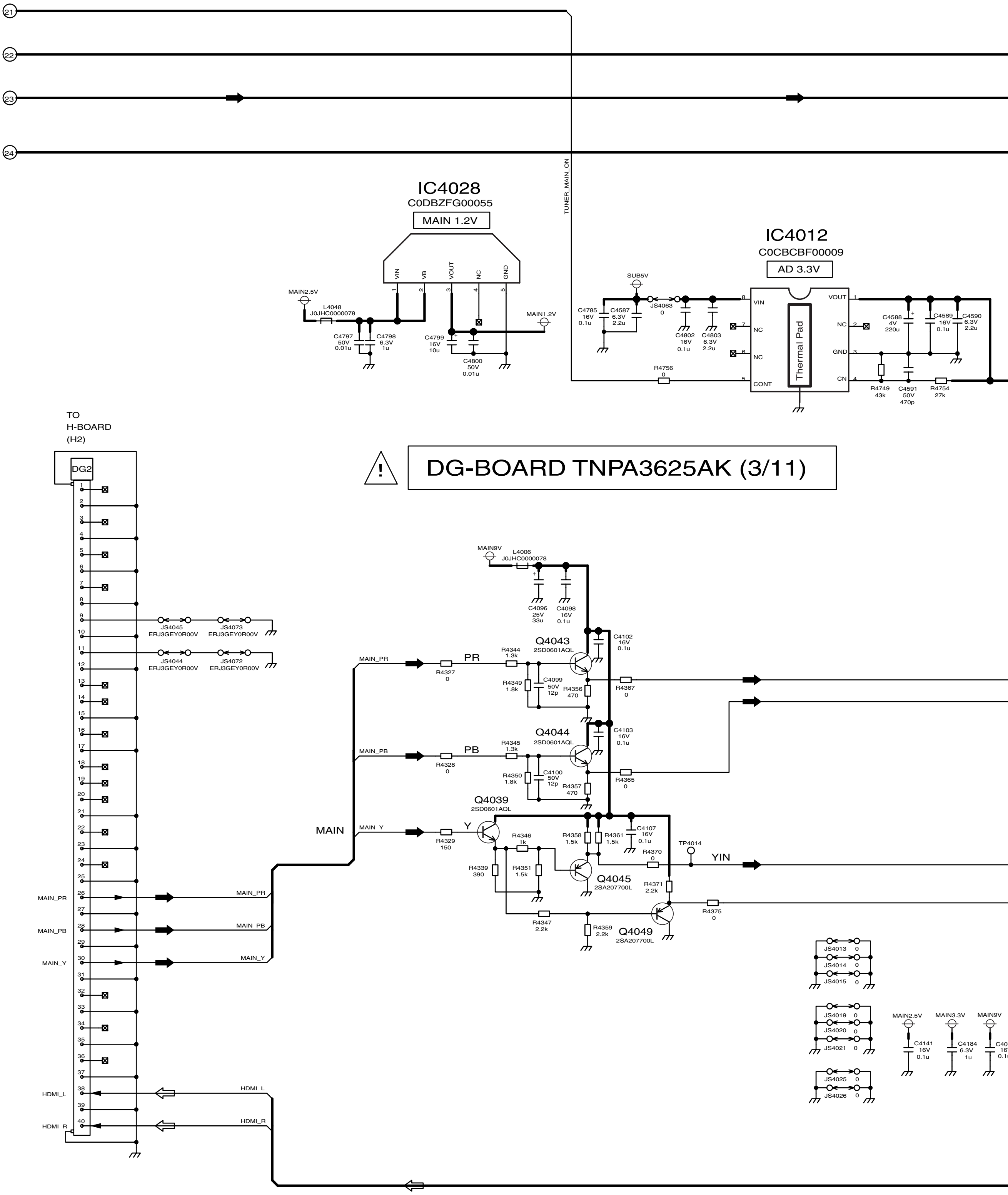

1
2
3
4
5
6
7
8
9
STB3.3V
IC4006
TVRN723
4M FLASH ROM
A16 1 A15
A15 2 A14
A14 3 A13
A13 4 A12
A12 5 A11
A11 6 A10
A10 7 A9
A9 8 A8
9 N.C.
10 N.C.
ABI_D 11 WE
12 RESET
13 N.C.
14 N.C.
15 RY/BY
ABI_J1 16 N.C. A18
A18 17 A17
A8 18 A7
A7 19 A6
A6 20 A5
A5 21 A4
A4 22 A3
A3 23 A2
A2 24 A1
48 A16 A17
47 BYTE
46 VSS
45 DQ15/A-1 D15
44 DQ7 D07
43 DQ14 D14
42 DQ6 D06
41 DQ13 D13
40 DQ5 D05
39 DQ12 D12
38 DQ4 D04
37 VCC
36 DQ11 D11
35 DQ3 D03
34 DQ10 D10
33 DQ2 D02
32 DQ9 D09
31 DQ1 D01
30 DQ8 D08
29 DQ0 D00
28 OE ABI_I
27 VSS
26 CE ABI_8M
25 A0 A1
R4224 10k
R4226 0
C4034 16V 0.1u
C4035 16V 4.7u
C4038 50V 100p
R4237 1k
TP4007
STB3.3V
R4238 4.7k
C4456 50V 0.01u
C4043 16V 1u
IC4010
C0EBF0000431
STB 3.3V
RESET
Cd
VOUT
CE
VDET
GND
VDD
C4042 16V 1u
STB5V(SUB5V BACKUP)
R4254 10k
R4255 3.3k
SUB5V
D4012 MA2J72900L
STB5V
D4013 MA2J72900L
D4014 MA2J72900L
R4674 10k
R4676 470k
R4677 470k
D4027 MA2J11100L
D4025 MA2J11100L
D4026 MA2J11100L
C4461 16V 0.1u
IC4030
C0EBF0000335
RESET
GND
OUT
VCC
Cd
C4464 10V 10u
C4463 10V 10u
TP4040
SUB5V
DG-BOARD TNPA3625AK (2/11)
AA
AB

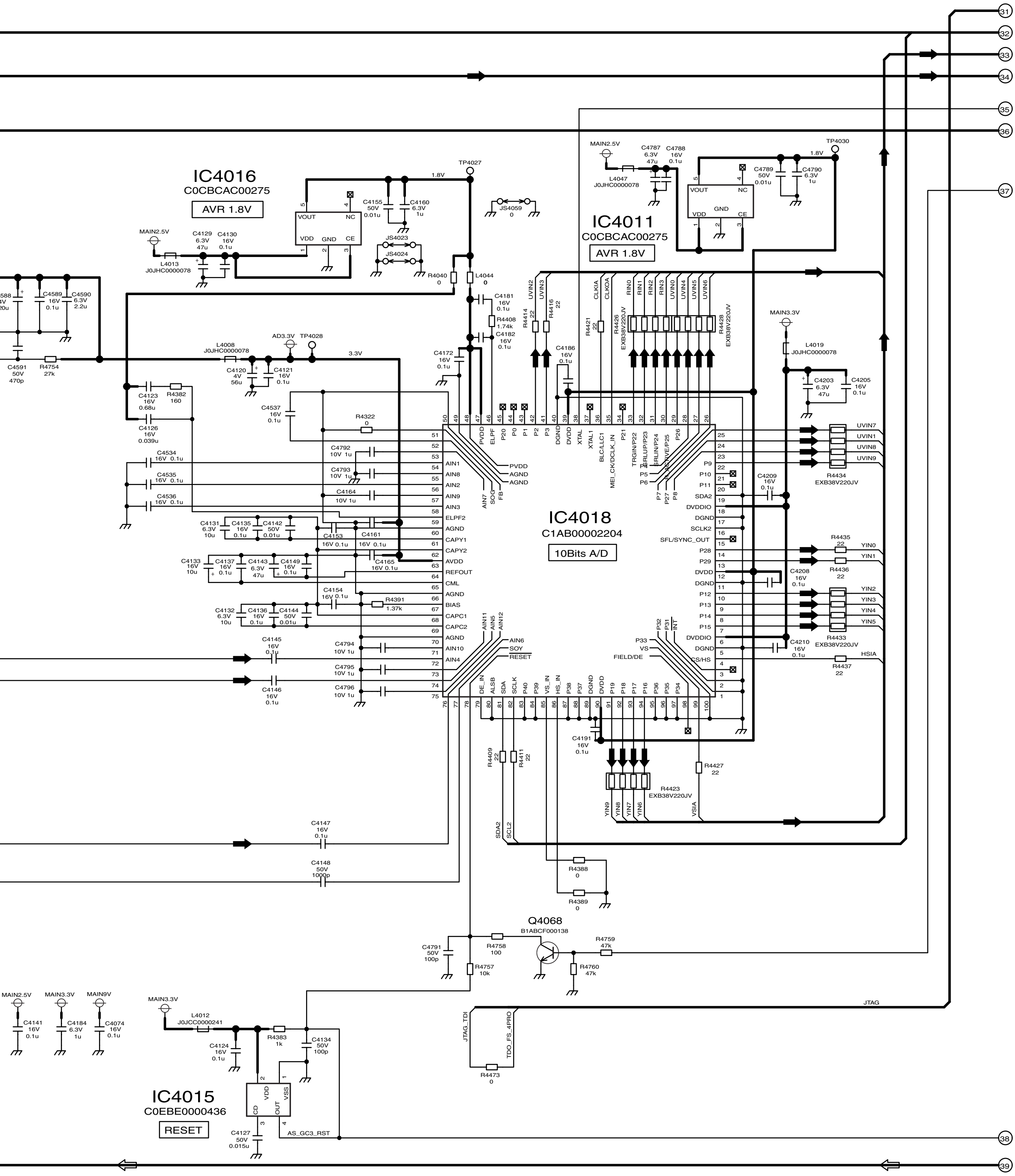
8 9 10 11 12


SW_OFF_DET
HDMI CONTROL BUS
PEAKS-LITE OSD
RST (AD_STB_RST)
D4016
MA2J72800L
Q4017
B1ABCF000138
Q4021
B1ABCF000138
R4254 10k
R4255 3.3k
C4051 10V 0.22u
R4264 3.3k
R4266 10k
R4269 15k
Q4015
B1ABCF000138
Q4019
B1ABCF000138
R4252 82k
R4256 100k
R4260 6.8k
C4053 10V 0.22u
R4262 47k
R4267 47k
Q4016
B1ABCF000138
Q4020
B1ABCF000138
R4253 82k
R4257 100k
R4261 6.8k
C4054 6.3V 2.2u
R4263 47k
R4268 47k
R4259 10
MONTEROUT_DEF
MONITOROUT_DEF
RESET
TO
H-BOARD
(H1)
DG1
SBI1
SBO1
SCL0A
SDA0A
SCL0B
SDA0B
SCL2
SDA2
SCL1
SDA1
KEYSCAN2
MAIN_DEF
SP_MUTE
SRQ
STB_LED
LED_R
RM_IN
KEYSCAN
KEYSCAN3
SP_SHORT
BA_SCL0
BA_SDA0
STB5V
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
21
22
23
24
AB
AC
AD
AE
AF
TO
DG-BOARD
(9/11)

TH-42PM50U
DG-Board (2 of 11) Schematic Diagram

13.25. DG-Board (3 of 11) Schematic Diagram

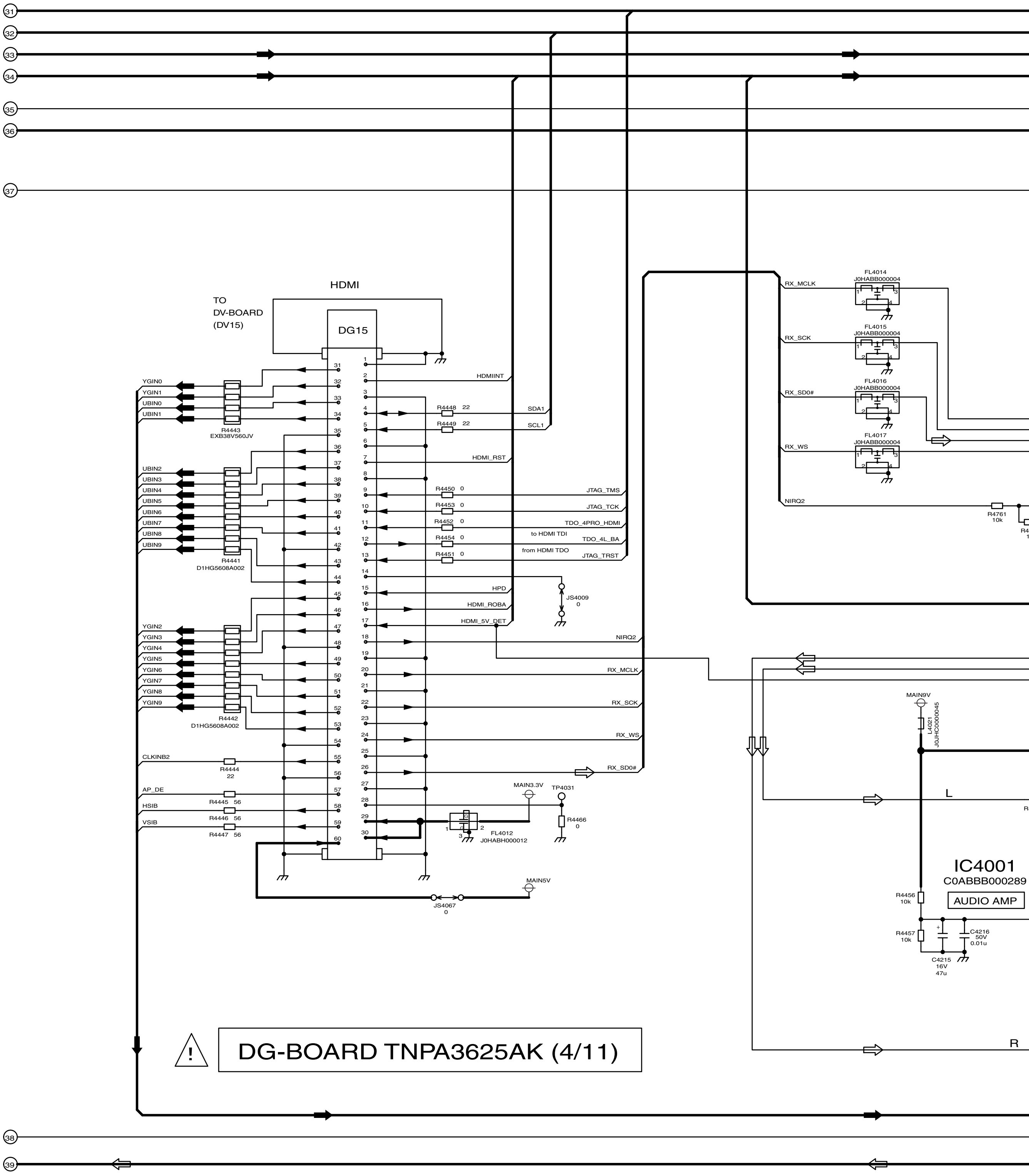

21
22
23
24
TUNER_MAIN_ON
IC4028
C0DBZFG00055
MAIN 1.2V
VIN
VB
VOUT
NC
GND
MAIN2.5V
L4048
J0JHC0000078
C4797 50V 0.01u
C4798 6.3V 1u
C4799 16V 10u
C4800 50V 0.01u
MAIN1.2V
IC4012
C0CBCBF00009
AD 3.3V
SUB5V
C4785 16V 0.1u
C4587 6.3V 2.2u
JS4063 0
C4802 16V 0.1u
C4803 6.3V 2.2u
R4756 0
VIN
NC
NC
CONT
Thermal Pad
VOUT
NC
GND
CN
C4588 4V 220u
C4589 16V 0.1u
C4590 6.3V 2.2u
R4749 43k
C4591 50V 470p
R4754 27k
TO H-BOARD (H2)
DG2
DG-BOARD TNPA3625AK (3/11)
JS4045 ERJ3GEY0R00V
JS4073 ERJ3GEY0R00V
JS4044 ERJ3GEY0R00V
JS4072 ERJ3GEY0R00V
MAIN_PR
MAIN_PB
MAIN_Y
HDMI_L
HDMI_R
MAIN
MAIN9V
L4006
J0JHC0000078
C4096 25V 33u
C4098 16V 0.1u
Q4043
2SD0601AQL
PR
R4327 0
R4344 1.3k
R4349 1.8k
C4099 50V 12p
R4356 470
C4102 16V 0.1u
R4367 0
Q4044
2SD0601AQL
PB
R4328 0
R4345 1.3k
R4350 1.8k
C4100 50V 12p
R4357 470
C4103 16V 0.1u
R4365 0
Q4039
2SD0601AQL
Y
R4329 150
R4339 390
R4346 1k
R4351 1.5k
R4358 1.5k
R4361 1.5k
C4107 16V 0.1u
R4370 0
TP4014
YIN
Q4045
2SA2077000L
R4371 2.2k
R4375 0
R4347 2.2k
R4359 2.2k
Q4049
2SA2077000L
JS4013 0
JS4014 0
JS4015 0
JS4019 0
JS4020 0
JS4021 0
JS4025 0
JS4026 0
MAIN2.5V
MAIN3.3V
MAIN9V
C4141 16V 0.1u
C4184 6.3V 1u

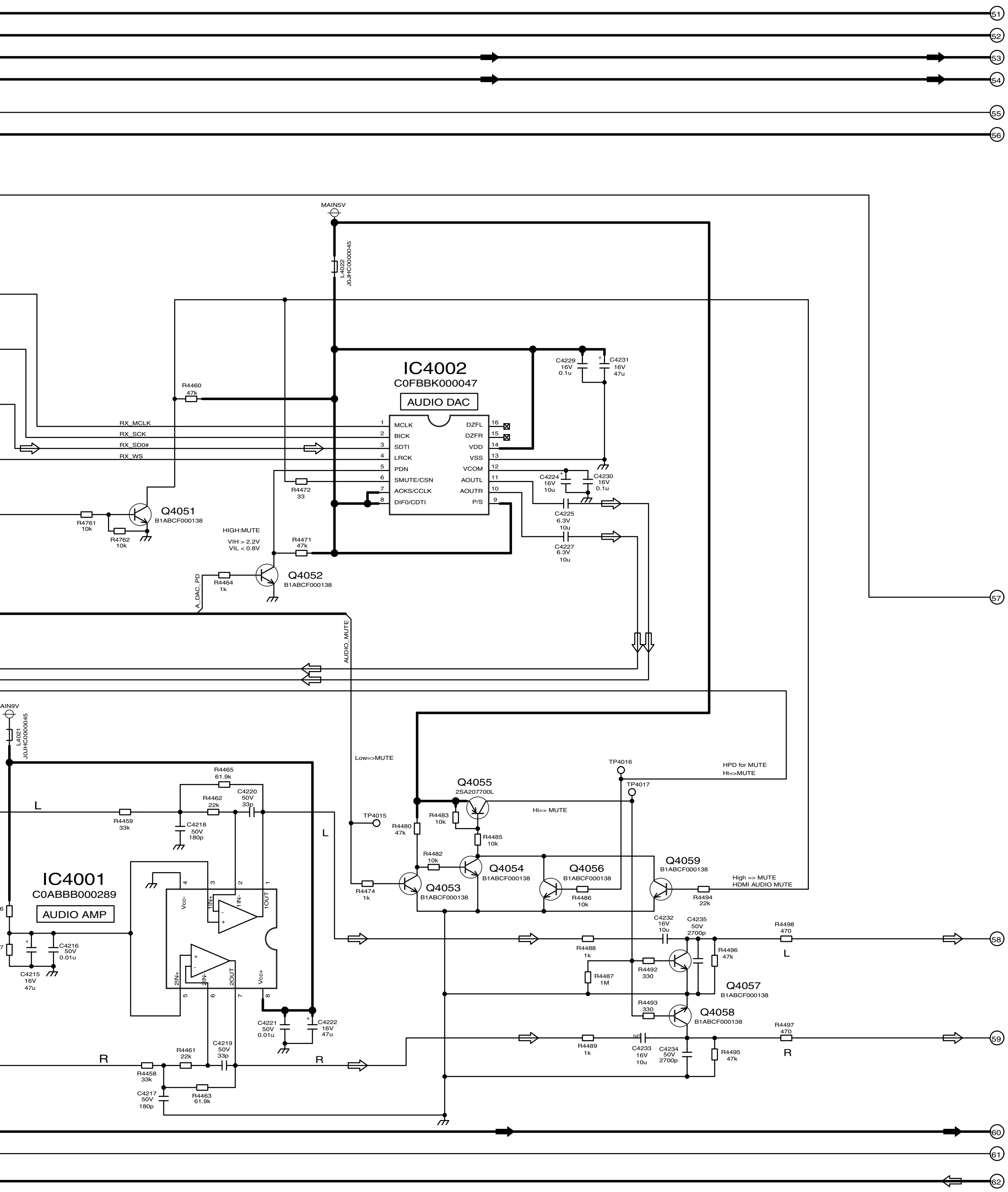

IC4016
C0CBCAC00275
AVR 1.8V
IC4011
C0CBCAC00275
AVR 1.8V
IC4018
C1AB00002204
10Bits A/D
IC4015
C0EBE0000436
RESET
Q4068
B1ABCF000138
MAIN2.5V
MAIN3.3V
MAIN9V
AD3.3V
TP4027
TP4028
TP4030
1.8V
3.3V
JTAG
AS_GC3_RST
31
32
33
34
35
36
37
38
39

TH-42PM50U
DG-Board (3 of 11) Schematic Diagram

9 | 20 | 21 | 22 | 23

13.26. DG-Board (4 of 11) Schematic Diagram

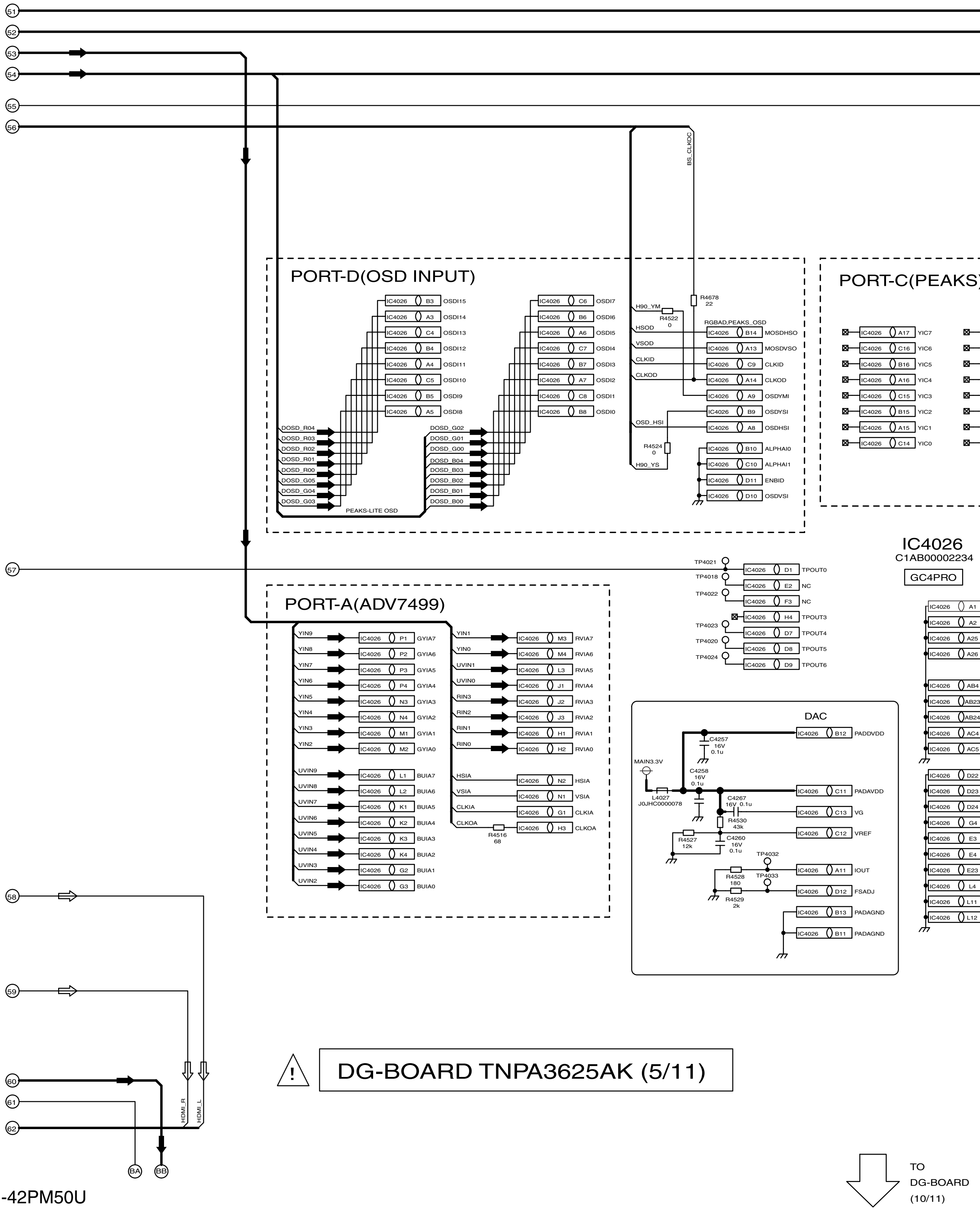

31
32
33
34
35
36
37
HDMI
TO
DV-BOARD
(DV15)
DG15
YGIN0
YGIN1
UBIN0
UBIN1
R4443
EXB38V560JV
UBIN2
UBIN3
UBIN4
UBIN5
UBIN6
UBIN7
UBIN8
UBIN9
R4441
D1HG5608A002
YGIN2
YGIN3
YGIN4
YGIN5
YGIN6
YGIN7
YGIN8
YGIN9
R4442
D1HG5608A002
CLKINB2
R4444
22
AP_DE
R4445 56
HSIB
R4446 56
VSIB
R4447 56
HDMIINT
R4448 22
SDA1
R4449 22
SCL1
HDMI_RST
R4450 0
JTAG_TMS
R4453 0
JTAG_TCK
R4452 0
TDO_4PRO_HDMI
to HDMI TDI
R4454 0
TDO_4L_BA
from HDMI TDO
R4451 0
JTAG_TRST
HPD
JS4009
0
HDMI_ROBA
HDMI_5V_DET
NIRQ2
RX_MCLK
RX_SCK
RX_WS
RX_SD0#
MAIN3.3V
TP4031
R4466
0
FL4012
J0HABH000012
MAIN5V
JS4067
0
FL4014
J0HABB000004
FL4015
J0HABB000004
FL4016
J0HABB000004
FL4017
J0HABB000004
R4761
10k
MAIN9V
L4021
J0JHC0000045
L
R
IC4001
C0ABBB000289
AUDIO AMP
R4456
10k
R4457
10k
C4216
50V
0.01u
C4215
16V
47u
DG-BOARD TNPA3625AK (4/11)
38
39


51
52
53
54
55
56
57
58
59
60
61
62
MAIN5V
L4022
J0JHC0000045
IC4002
C0FBBK000047
AUDIO DAC
C4229
16V
0.1u
C4231
16V
47u
R4460
47k
RX_MCLK
RX_SCK
RX_SD0#
RX_WS
1 MCLK
2 BICK
3 SDTI
4 LRCK
5 PDN
6 SMUTE/CSN
7 ACKS/CCLK
8 DIF0/CDTI
16 DZFL
15 DZFR
14 VDD
13 VSS
12 VCOM
11 AOUTL
10 AOUTR
9 P/S
C4224
16V
10u
C4230
16V
0.1u
R4472
33
C4225
6.3V
10u
C4227
6.3V
10u
Q4051
B1ABCF000138
R4761
10k
R4762
10k
HIGH:MUTE
VIH > 2.2V
VIL < 0.8V
R4471
47k
Q4052
B1ABCF000138
R4464
1k
A_DAC_PD
AUDIO_MUTE
AIN9V
L4021
J0JHC0000045
Low=>MUTE
TP4016
TP4017
HPD for MUTE
Hi=>MUTE
R4465
61.9k
C4220
50V
33p
R4462
22k
L
R4459
33k
C4218
50V
180p
L
Q4055
2SA207700L
Hi=> MUTE
TP4015
R4483
10k
R4480
47k
R4485
10k
R4482
10k
Q4054
B1ABCF000138
Q4056
B1ABCF000138
Q4059
B1ABCF000138
High => MUTE
HDMI AUDIO MUTE
R4474
1k
Q4053
B1ABCF000138
R4486
10k
R4494
22k
IC4001
C0ABBB000289
AUDIO AMP
Vcc-
1IN+
1IN-
1OUT
2IN+
2IN-
2OUT
Vcc+
C4216
50V
0.01u
C4215
16V
47u
C4232
16V
10u
C4235
50V
2700p
R4498
470
R4488
1k
R4496
47k
L
R4487
1M
R4492
330
Q4057
B1ABCF000138
R4493
330
Q4058
B1ABCF000138
C4221
50V
0.01u
C4222
16V
47u
R4497
470
R4489
1k
C4233
16V
10u
C4234
50V
2700p
R4495
47k
R
R4461
22k
C4219
50V
33p
R
R
R4458
33k
C4217
50V
180p
R4463
61.9k

TH-42PM50U
DG-Board (4 of 11) Schematic Diagram

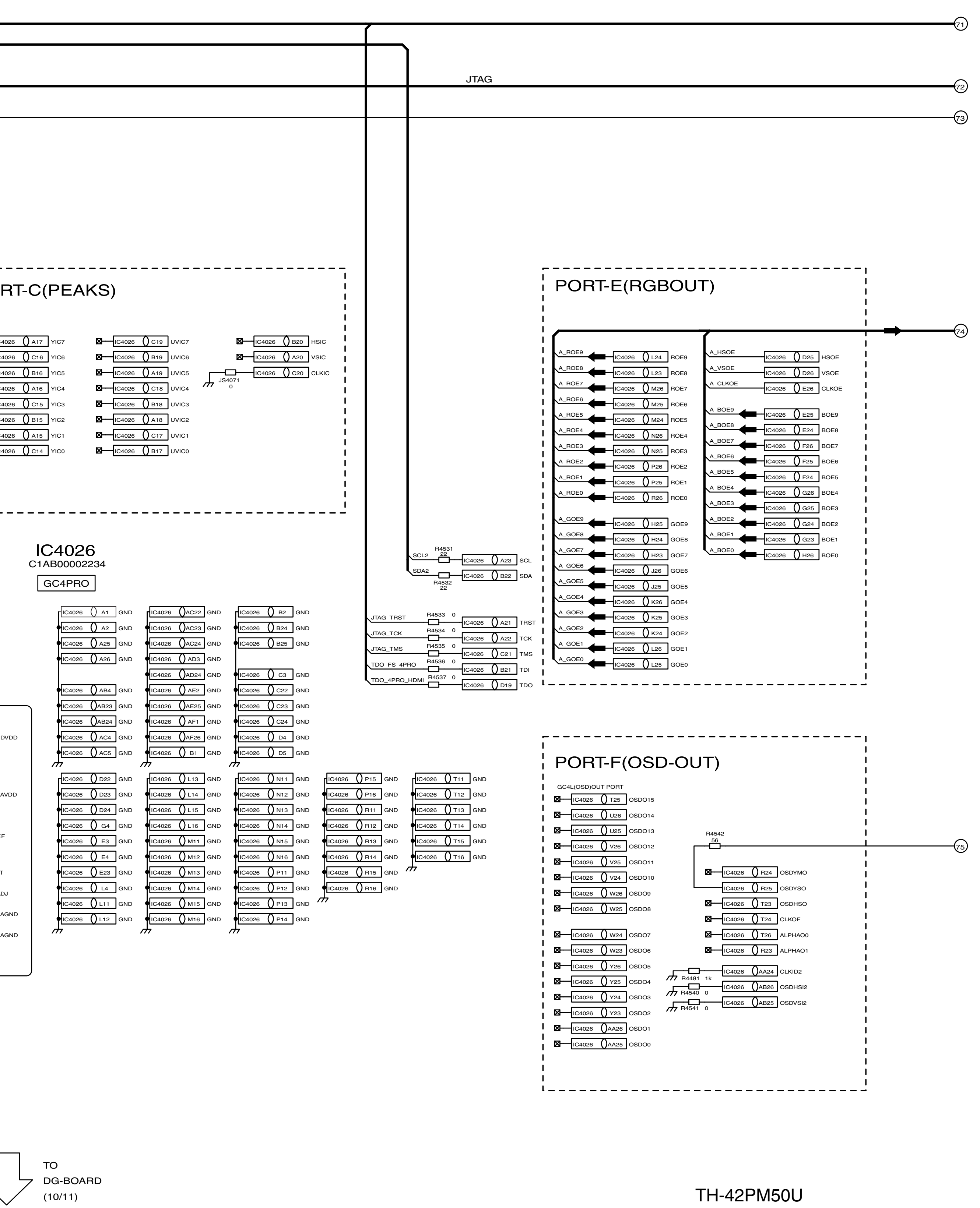
27 28 29 30

13.27. DG-Board (5 of 11) Schematic Diagram


51
52
53
54
55
56
57
58
59
60
61
62
BS_CLKOC
PORT-D(OSD INPUT)
IC4026 B3 OSDI15
IC4026 A3 OSDI14
IC4026 C4 OSDI13
IC4026 B4 OSDI12
IC4026 A4 OSDI11
IC4026 C5 OSDI10
IC4026 B5 OSDI9
IC4026 A5 OSDI8
IC4026 C6 OSDI7
IC4026 B6 OSDI6
IC4026 A6 OSDI5
IC4026 C7 OSDI4
IC4026 B7 OSDI3
IC4026 A7 OSDI2
IC4026 C8 OSDI1
IC4026 B8 OSDI0
DOSD_R04
DOSD_R03
DOSD_R02
DOSD_R01
DOSD_R00
DOSD_G05
DOSD_G04
DOSD_G03
PEAKS-LITE OSD
DOSD_G02
DOSD_G01
DOSD_G00
DOSD_B04
DOSD_B03
DOSD_B02
DOSD_B01
DOSD_B00
H90_YM
R4522 0
R4678 22
HSOD
VSOD
CLKID
CLKOD
OSD_HSI
R4524 0
H90_YS
RGBAD,PEAKS_OSD
IC4026 B14 MOSDHSO
IC4026 A13 MOSDVSO
IC4026 C9 CLKID
IC4026 A14 CLKOD
IC4026 A9 OSDYMI
IC4026 B9 OSDYSI
IC4026 A8 OSDHSI
IC4026 B10 ALPHAI0
IC4026 C10 ALPHAI1
IC4026 D11 ENBID
IC4026 D10 OSDVSI
PORT-C(PEAKS
IC4026 A17 YIC7
IC4026 C16 YIC6
IC4026 B16 YIC5
IC4026 A16 YIC4
IC4026 C15 YIC3
IC4026 B15 YIC2
IC4026 A15 YIC1
IC4026 C14 YIC0
IC4026
C1AB00002234
GC4PRO
TP4021
TP4018
TP4022
TP4023
TP4020
TP4024
IC4026 D1 TPOUT0
IC4026 E2 NC
IC4026 F3 NC
IC4026 H4 TPOUT3
IC4026 D7 TPOUT4
IC4026 D8 TPOUT5
IC4026 D9 TPOUT6
IC4026 A1
IC4026 A2
IC4026 A25
IC4026 A26
IC4026 AB4
IC4026 AB23
IC4026 AB24
IC4026 AC4
IC4026 AC5
IC4026 D22
IC4026 D23
IC4026 D24
IC4026 G4
IC4026 E3
IC4026 E4
IC4026 E23
IC4026 L4
IC4026 L11
IC4026 L12
PORT-A(ADV7499)
YIN9
YIN8
YIN7
YIN6
YIN5
YIN4
YIN3
YIN2
IC4026 P1 GYIA7
IC4026 P2 GYIA6
IC4026 P3 GYIA5
IC4026 P4 GYIA4
IC4026 N3 GYIA3
IC4026 N4 GYIA2
IC4026 M1 GYIA1
IC4026 M2 GYIA0
UVIN9
UVIN8
UVIN7
UVIN6
UVIN5
UVIN4
UVIN3
UVIN2
IC4026 L1 BUIA7
IC4026 L2 BUIA6
IC4026 K1 BUIA5
IC4026 K2 BUIA4
IC4026 K3 BUIA3
IC4026 K4 BUIA2
IC4026 G2 BUIA1
IC4026 G3 BUIA0
YIN1
YIN0
UVIN1
UVIN0
RIN3
RIN2
RIN1
RIN0
IC4026 M3 RVIA7
IC4026 M4 RVIA6
IC4026 L3 RVIA5
IC4026 J1 RVIA4
IC4026 J2 RVIA3
IC4026 J3 RVIA2
IC4026 H1 RVIA1
IC4026 H2 RVIA0
HSIA
VSIA
CLKIA
CLKOA
R4516 68
IC4026 N2 HSIA
IC4026 N1 VSIA
IC4026 G1 CLKIA
IC4026 H3 CLKOA
DAC
C4257 16V 0.1u
IC4026 B12 PADDVDD
MAIN3.3V
C4258 16V 0.1u
L4027 J0JHC0000078
IC4026 C11 PADAVDD
C4267 16V 0.1u
IC4026 C13 VG
R4530 43k
R4527 12k
C4260 16V 0.1u
IC4026 C12 VREF
TP4032
R4528 180
IC4026 A11 IOUT
TP4033
R4529 2k
IC4026 D12 FSADJ
IC4026 B13 PADAGND
IC4026 B11 PADAGND
DG-BOARD TNPA3625AK (5/11)
HDMI_R
HDMI_L
BA
BB
TO
DG-BOARD
(10/11)

TH-42PM50U
DG-Board (5 of 11) Schematic Diagram

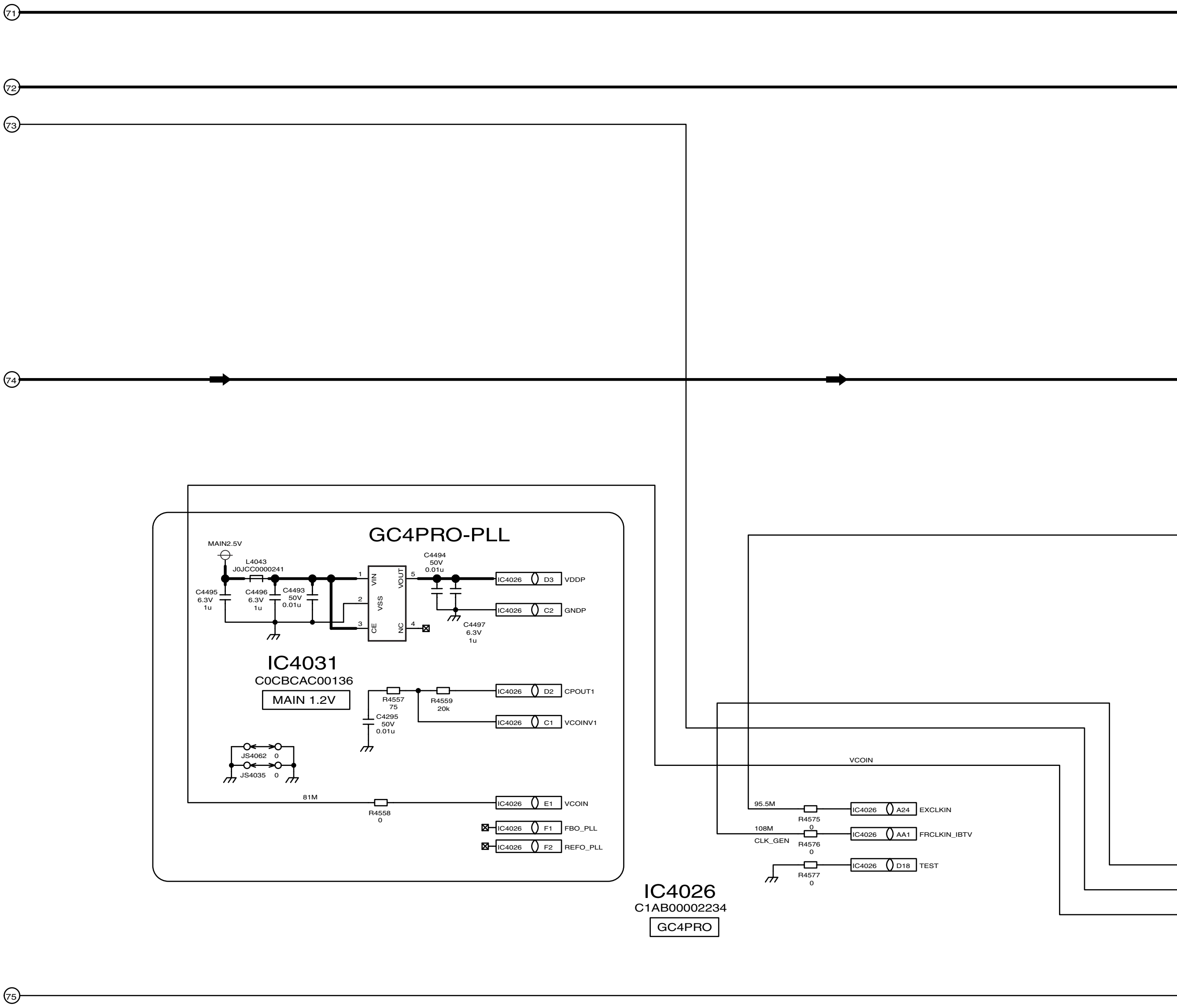
31 32 33 34


JTAG
71
72
73
74
75
RT-C(PEAKS)
PORT-E(RGBOUT)
PORT-F(OSD-OUT)
GC4L(OSD)OUT PORT
IC4026
C1AB00002234
GC4PRO
YIC7
YIC6
YIC5
YIC4
YIC3
YIC2
YIC1
YIC0
UVIC7
UVIC6
UVIC5
UVIC4
UVIC3
UVIC2
UVIC1
UVIC0
HSIC
VSIC
CLKIC
JS4071
SCL2
SDA2
R4531 22
R4532 22
SCL
SDA
JTAG_TRST
JTAG_TCK
JTAG_TMS
TDO_FS_4PRO
TDO_4PRO_HDMI
R4533 0
R4534 0
R4535 0
R4536 0
R4537 0
TRST
TCK
TMS
TDI
TDO
A_ROE9
A_ROE8
A_ROE7
A_ROE6
A_ROE5
A_ROE4
A_ROE3
A_ROE2
A_ROE1
A_ROE0
A_GOE9
A_GOE8
A_GOE7
A_GOE6
A_GOE5
A_GOE4
A_GOE3
A_GOE2
A_GOE1
A_GOE0
A_HSOE
A_VSOE
A_CLKOE
A_BOE9
A_BOE8
A_BOE7
A_BOE6
A_BOE5
A_BOE4
A_BOE3
A_BOE2
A_BOE1
A_BOE0
HSOE
VSOE
CLKOE
OSDO15
OSDO14
OSDO13
OSDO12
OSDO11
OSDO10
OSDO9
OSDO8
OSDO7
OSDO6
OSDO5
OSDO4
OSDO3
OSDO2
OSDO1
OSDO0
R4542 56
OSDYMO
OSDYSO
OSDHSO
CLKOF
ALPHAO0
ALPHAO1
R4481 1k
R4540 0
R4541 0
CLKID2
OSDHSI2
OSDVSI2
GND
DVDD
AVDD
AGND
TO
DG-BOARD
(10/11)

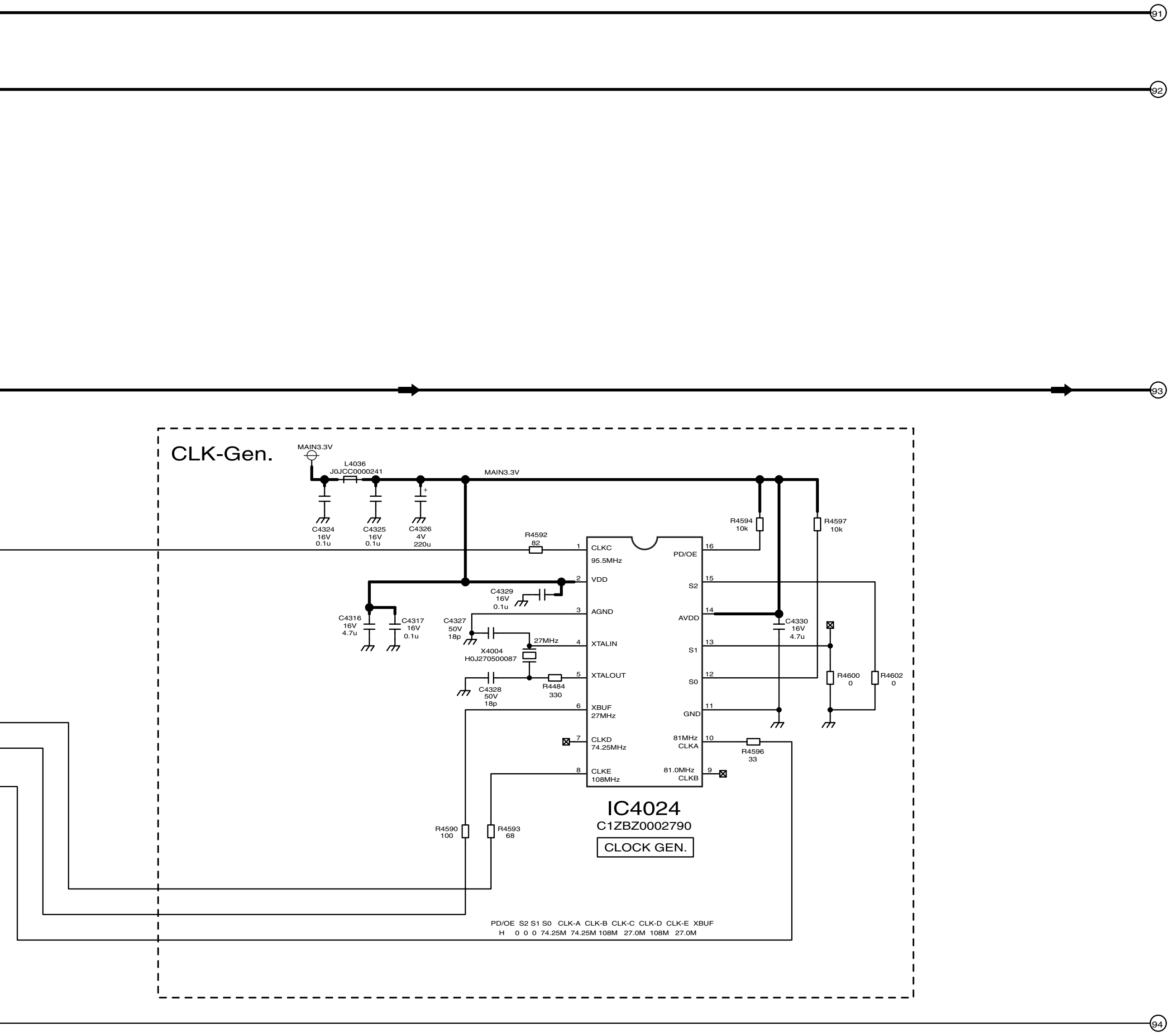
TH-42PM50U
DG-Board (5 of 11) Schematic Diagram

34 35 36 37 38

13.28. DG-Board (6 of 11) Schematic Diagram


71
72
73
74
75
GC4PRO-PLL
MAIN2.5V
L4043
J0JCC0000241
C4495
6.3V
1u
C4496
6.3V
1u
C4493
50V
0.01u
1
2
3
4
5
VIN
VSS
CE
NC
VOUT
C4494
50V
0.01u
C4497
6.3V
1u
IC4026 D3 VDDP
IC4026 C2 GNDP
IC4031
C0CBCAC00136
MAIN 1.2V
R4557
75
R4559
20k
C4295
50V
0.01u
IC4026 D2 CPOUT1
IC4026 C1 VCOINV1
JS4062 0
JS4035 0
81M
R4558
0
IC4026 E1 VCOIN
IC4026 F1 FBO_PLL
IC4026 F2 REFO_PLL
VCOIN
95.5M
R4575
0
IC4026 A24 EXCLKIN
108M
CLK_GEN
R4576
0
IC4026 AA1 FRCLKIN_IBTV
R4577
0
IC4026 D18 TEST
IC4026
C1AB00002234
GC4PRO

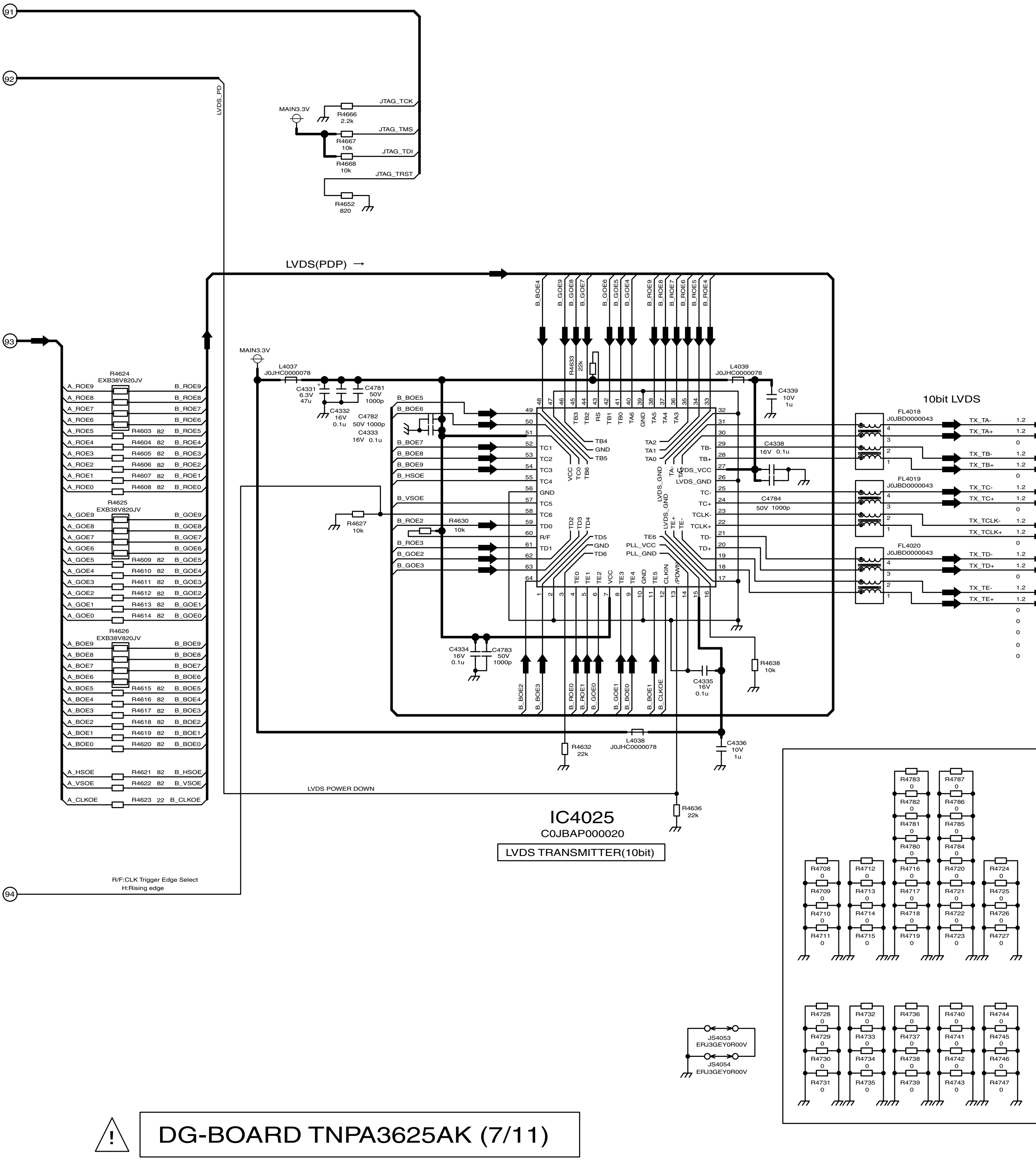
⚠ DG-BOARD TNPA3625AK (6/11)

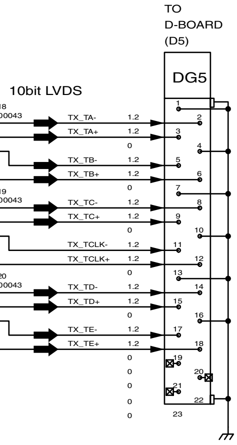

91
92
93
94
CLK-Gen.
MAIN3.3V
L4036
J0JCC0000241
MAIN3.3V
C4324
16V
0.1u
C4325
16V
0.1u
C4326
4V
220u
R4592
82
R4594
10k
R4597
10k
C4316
16V
4.7u
C4317
16V
0.1u
C4329
16V
0.1u
C4327
50V
18p
27MHz
X4004
H0J270500087
C4328
50V
18p
R4484
330
C4330
16V
4.7u
R4600
0
R4602
0
R4596
33
R4590
100
R4593
68
1 CLKC 95.5MHz
2 VDD
3 AGND
4 XTALIN
5 XTALOUT
6 XBUF 27MHz
7 CLKD 74.25MHz
8 CLKE 108MHz
16 PD/OE
15 S2
14 AVDD
13 S1
12 S0
11 GND
10 81MHz CLKA
9 81.0MHz CLKB
IC4024
C1ZBZ0002790
CLOCK GEN.

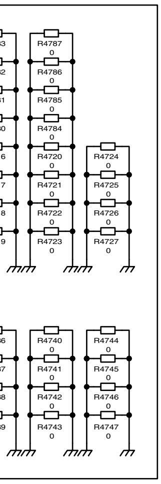
PD/OE	S2	S1	S0	CLK-A	CLK-B	CLK-C	CLK-D	CLK-E	XBUF
H	0	0	0	74.25M	74.25M	108M	27.0M	108M	27.0M

TH-42PM50U
DG-Board (6 of 11) Schematic Diagram

13.29. DG-Board (7 of 11) Schematic Diagram


91
92
93
94
LVDS_PD
MAIN3.3V
R4666 2.2k
R4667 10k
R4668 10k
R4652 820
JTAG_TCK
JTAG_TMS
JTAG_TDI
JTAG_TRST
LVDS(PDP) →
R4624 EXB38V820JV
R4625 EXB38V820JV
R4626 EXB38V820JV
A_ROE9 … A_ROE0
B_ROE9 … B_ROE0
A_GOE9 … A_GOE0
B_GOE9 … B_GOE0
A_BOE9 … A_BOE0
B_BOE9 … B_BOE0
R4603 82
R4604 82
R4605 82
R4606 82
R4607 82
R4608 82
R4609 82
R4610 82
R4611 82
R4612 82
R4613 82
R4614 82
R4615 82
R4616 82
R4617 82
R4618 82
R4619 82
R4620 82
A_HSOE R4621 82 B_HSOE
A_VSOE R4622 82 B_VSOE
A_CLKOE R4623 22 B_CLKOE
L4037 J0JHC0000078
C4331 6.3V 47u
C4332 16V 0.1u
C4781 50V 1000p
C4782 50V 1000p
C4333 16V 0.1u
R4633 22k
L4039 J0JHC0000078
C4339 10V 1u
C4338 16V 0.1u
C4784 50V 1000p
R4627 10k
R4630 10k
C4334 16V 0.1u
C4783 50V 1000p
C4335 16V 0.1u
R4638 10k
R4632 22k
L4038 J0JHC0000078
C4336 10V 1u
R4636 22k
LVDS POWER DOWN
R/F:CLK Trigger Edge Select
H:Rising edge
IC4025
C0JBAP000020
LVDS TRANSMITTER(10bit)
TC1 TC2 TC3 TC4 GND TC5 TC6 TD0 R/F TD1
TB4 GND TB5 TA2 TA1 TA0 TB- TB+ LVDS_VCC LVDS_GND TC- TC+ TCLK- TCLK+ TD- TD+
TD5 GND TD6 TE6 PLL_VCC PLL_GND
VCC TC0 TB6 TD2 TD3 TD4 TA- TA+ TE+ TE- LVDS_GND
TE0 TE1 TE2 VCC TE3 TE4 GND TE5 CLKIN /PDWN
TB3 TB2 RS TB1 TB0 TA6 GND TA5 TA4 TA3
10bit LVDS
FL4018 J0JBD0000043
FL4019 J0JBD0000043
FL4020 J0JBD0000043
TX_TA- TX_TA+ TX_TB- TX_TB+ TX_TC- TX_TC+ TX_TCLK- TX_TCLK+ TX_TD- TX_TD+ TX_TE- TX_TE+
R4783 0 … R4747 0
JS4053 ERJ3GEY0R00V
JS4054 ERJ3GEY0R00V
DG-BOARD TNPA3625AK (7/11)

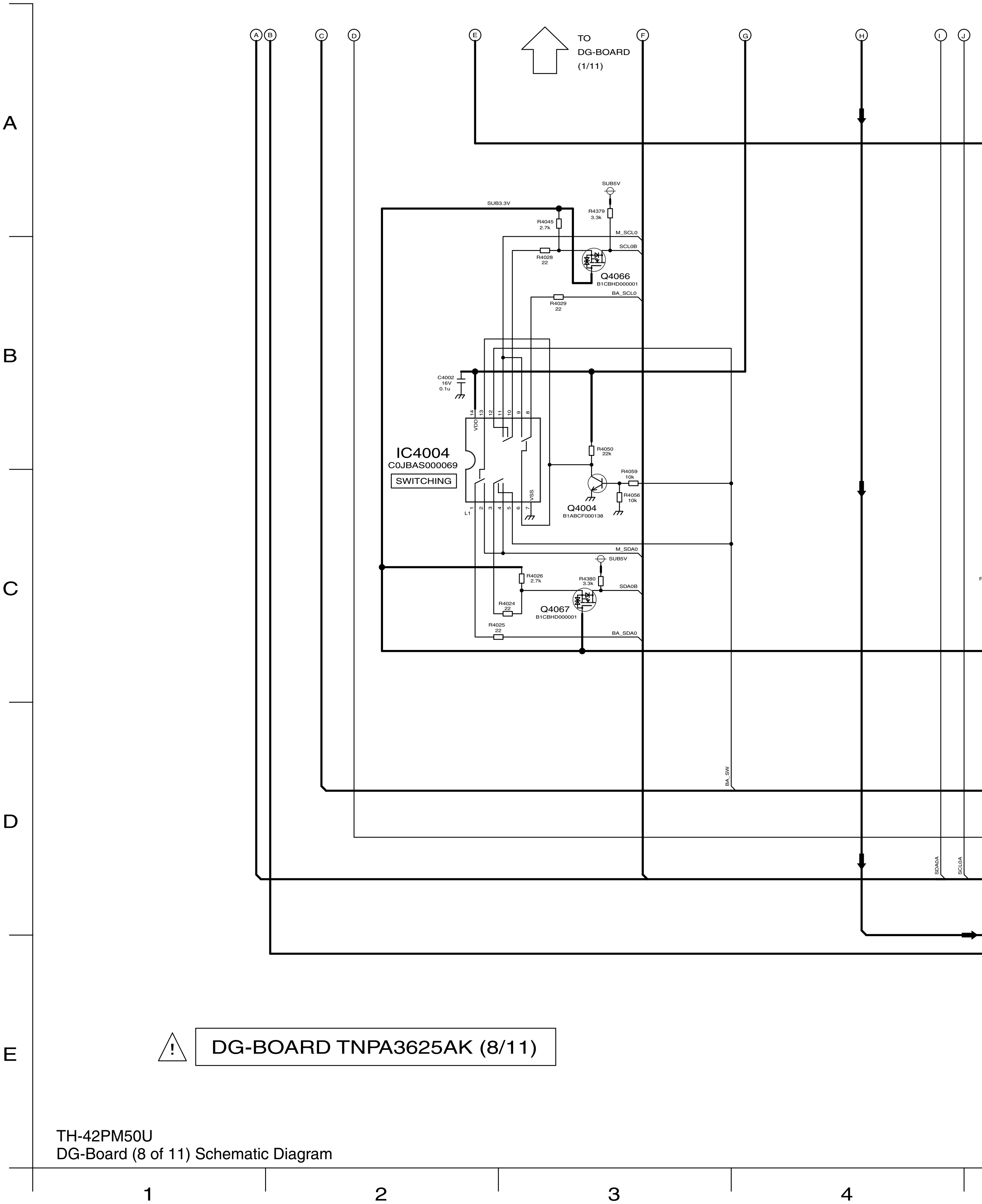

TO
D-BOARD
(D5)
DG5
10bit LVDS
TX_TA-
TX_TA+
TX_TB-
TX_TB+
TX_TC-
TX_TC+
TX_TCLK-
TX_TCLK+
TX_TD-
TX_TD+
TX_TE-
TX_TE+
1.2
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23


R4787
R4786
R4785
R4784
R4720
R4721
R4722
R4723
R4724
R4725
R4726
R4727
R4740
R4741
R4742
R4743
R4744
R4745
R4746
R4747
0

TH-42PM50U
DG-Board (7 of 11) Schematic Diagram

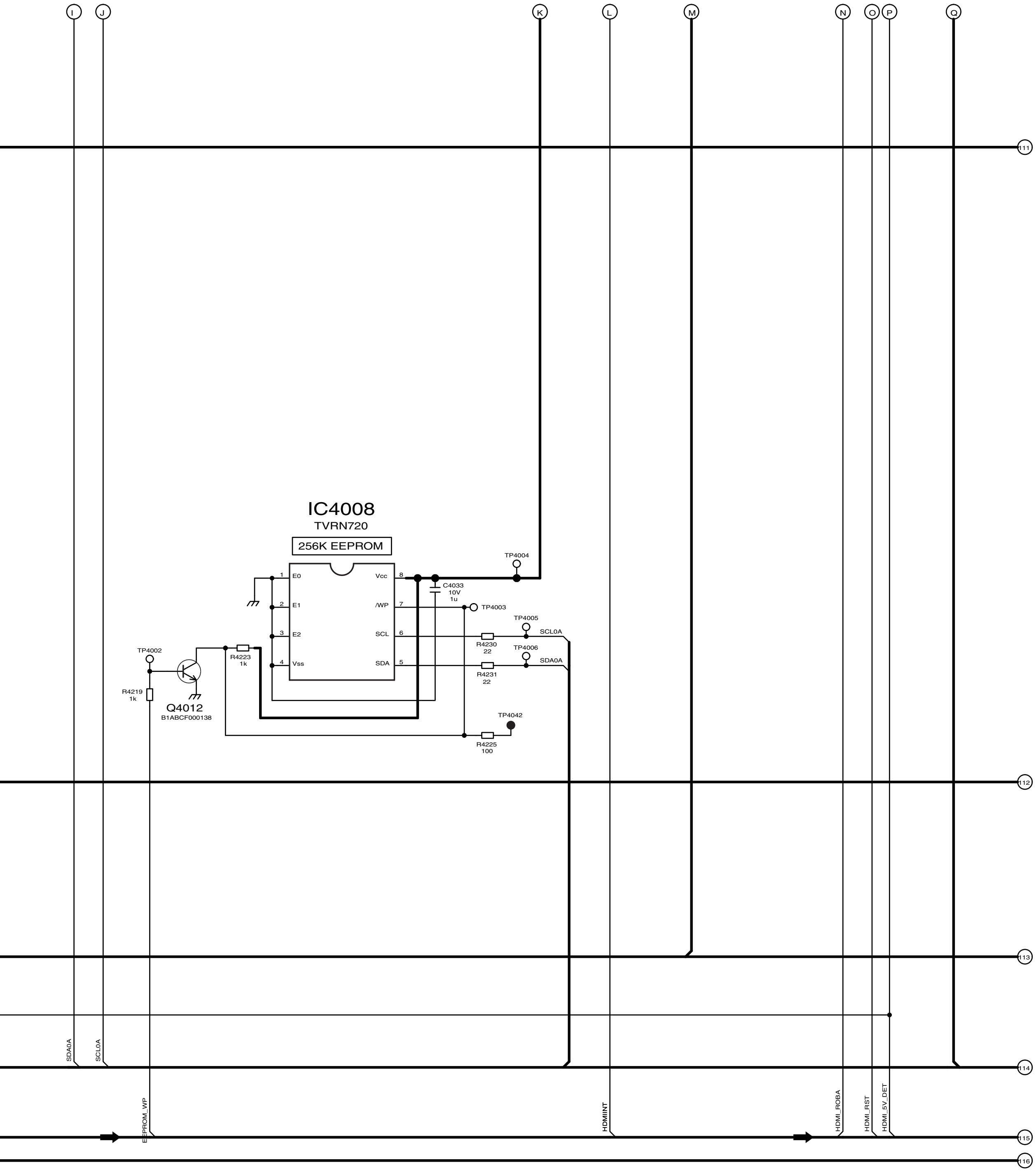
49 50 51 52 53

13.30. DG-Board (8 of 11) Schematic Diagram


A
B
C
D
E
1
2
3
4
A
B
C
D
E
F
G
H
I
J
TO
DG-BOARD
(1/11)
SUB5V
SUB3.3V
R4379
3.3k
R4045
2.7k
M_SCL0
SCL0B
R4028
22
Q4066
B1CBHD000001
BA_SCL0
R4029
22
C4002
16V
0.1u
14
13
12
11
10
9
8
VDD
IC4004
C0JBAS000069
SWITCHING
VSS
L1
1
2
3
4
5
6
7
R4050
22k
R4059
10k
R4056
10k
Q4004
B1ABCF000138
M_SDA0
SUB5V
R4026
2.7k
R4380
3.3k
SDA0B
R4024
22
Q4067
B1CBHD000001
R4025
22
BA_SDA0
BA_SW
SDA0A
SCL0A

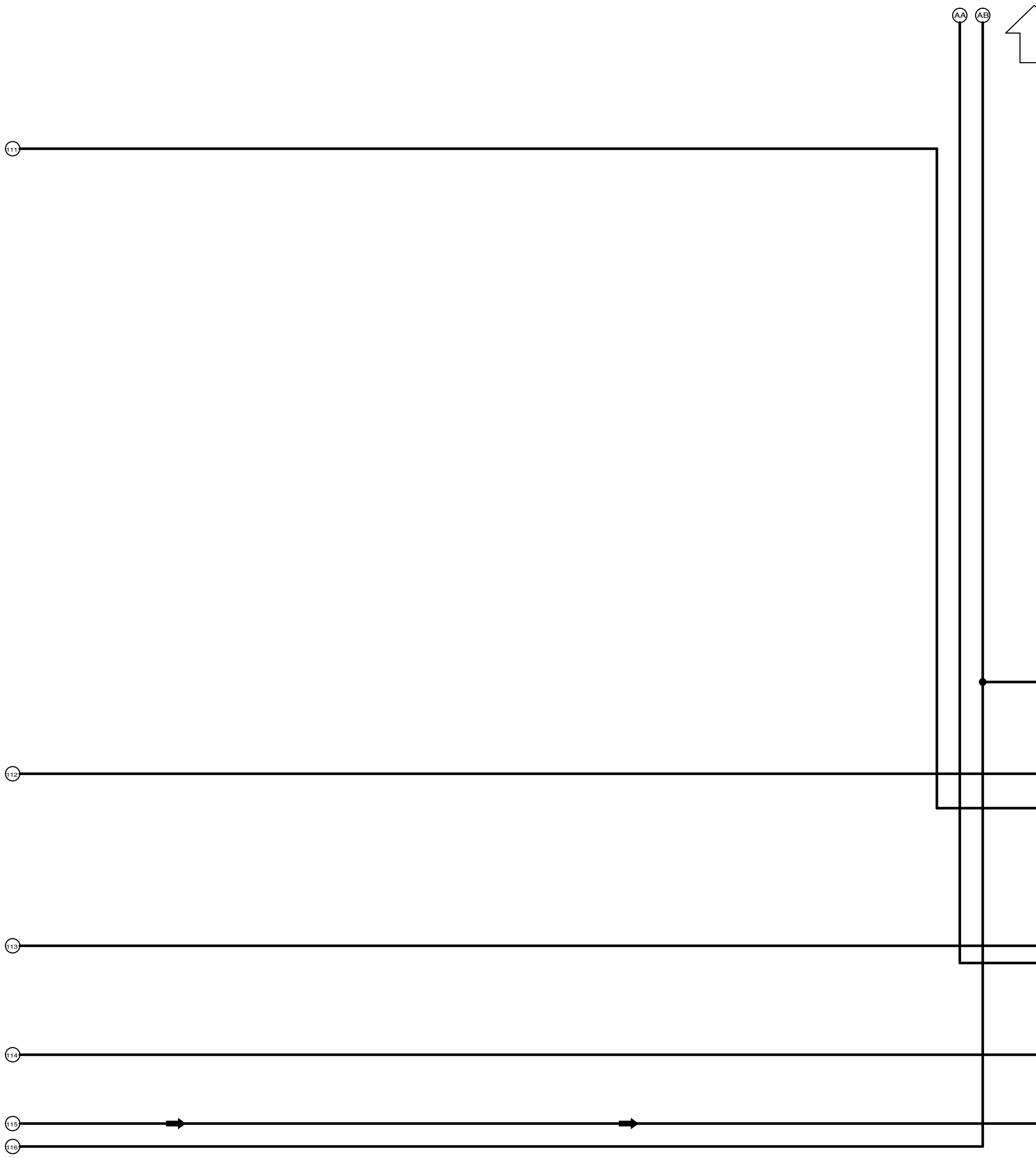
⚠ DG-BOARD TNPA3625AK (8/11)

TH-42PM50U
DG-Board (8 of 11) Schematic Diagram

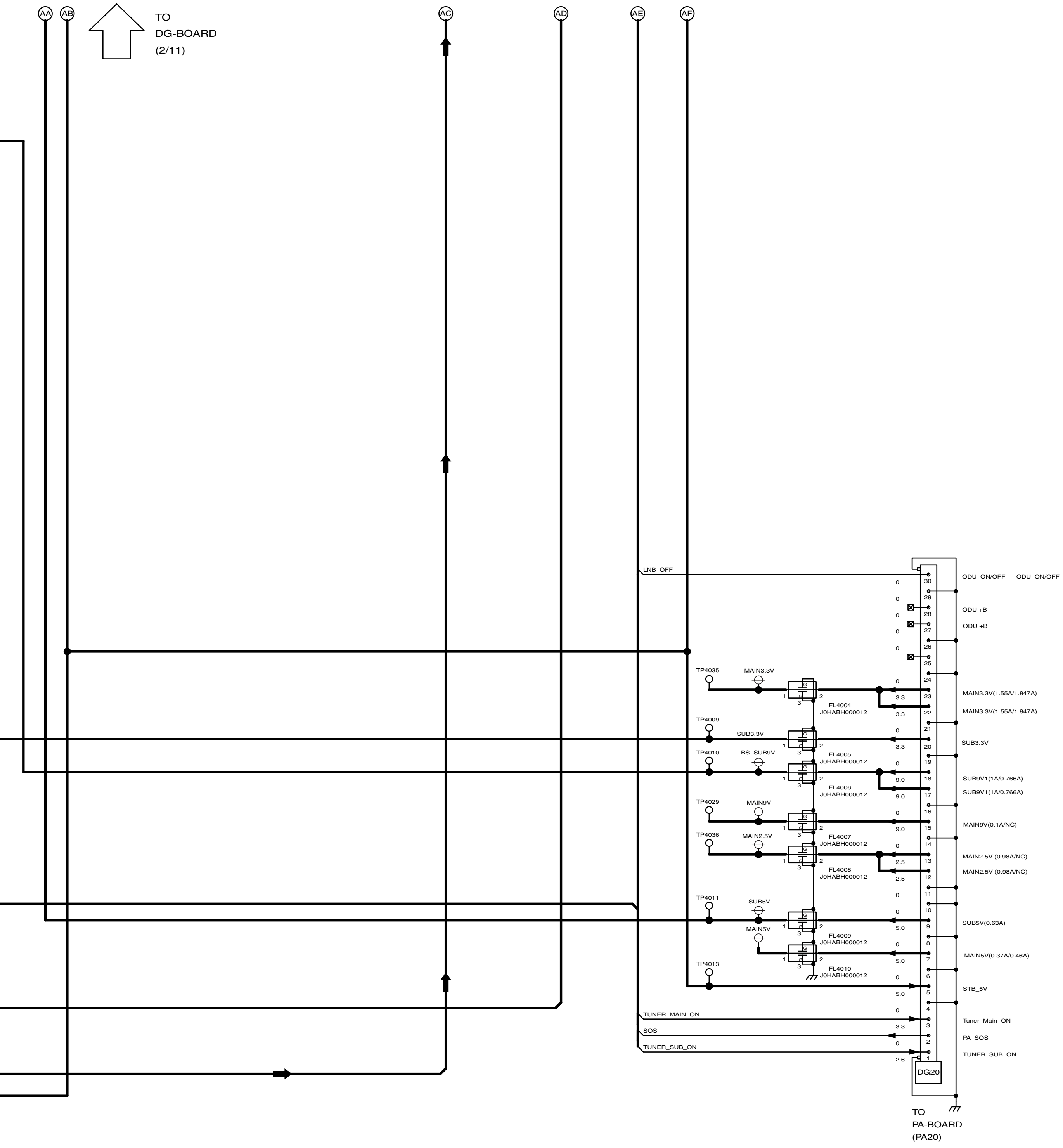

I
J
K
L
M
N
O
P
Q
111
IC4008
TVRN720
256K EEPROM
TP4004
1
E0
Vcc
8
C4033
10V
1u
2
E1
/WP
7
TP4003
TP4005
3
E2
SCL
6
SCL0A
R4230
22
TP4002
R4223
1k
TP4006
4
Vss
SDA
5
SDA0A
R4231
22
R4219
1k
Q4012
B1ABCF000138
TP4042
R4225
100
112
113
SDA0A
SCL0A
114
EEPROM_WP
HDMIINT
HDMI_ROBA
HDMI_RST
HDMI_5V_DET
115
116

TH-42PM50U
DG-Board (8 of 11) Schematic Diagram

13.31. DG-Board (9 of 11) Schematic Diagram


AA
AB
111
112
113
114
115
116

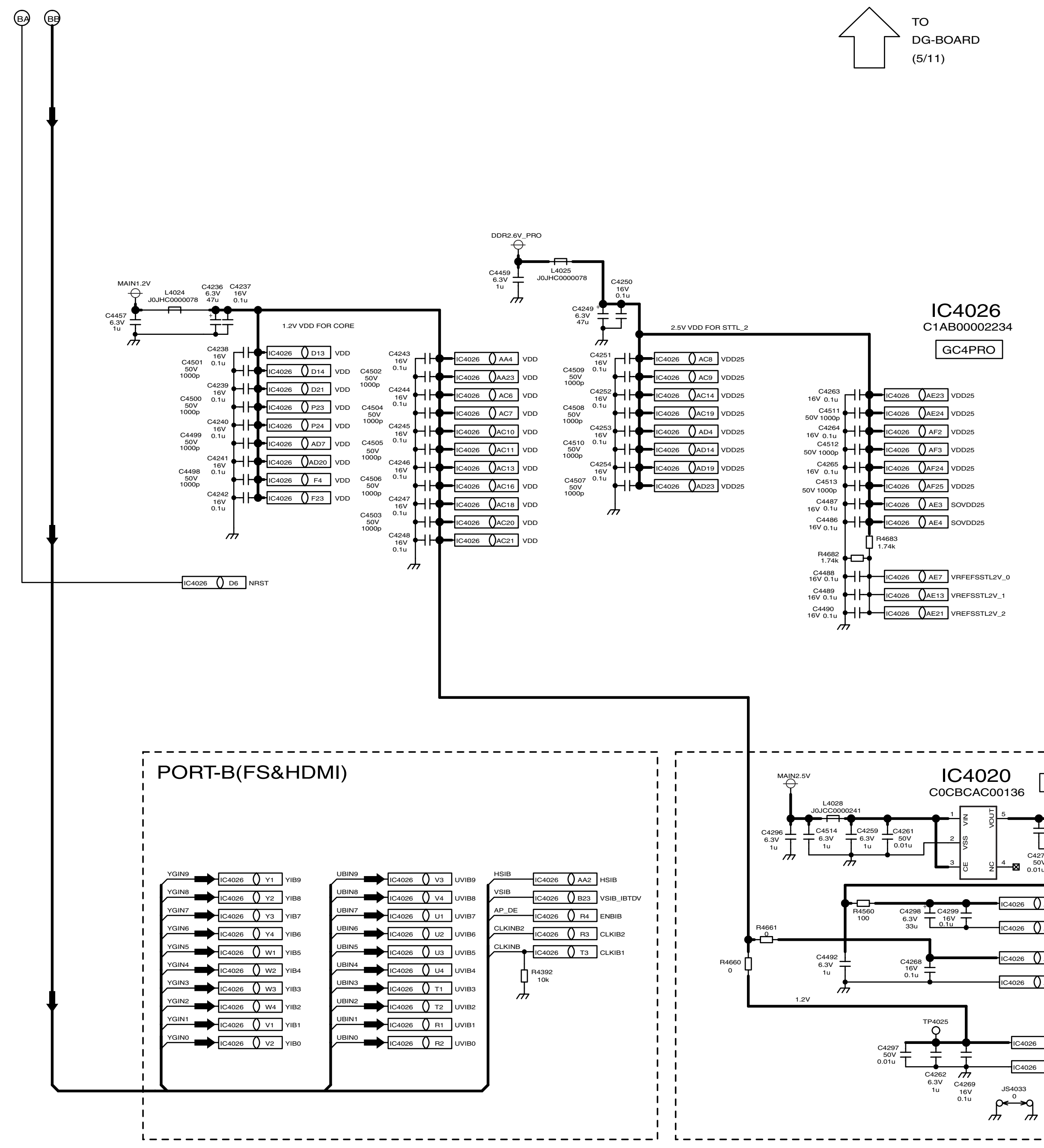
DG-BOARD TNPA3625AK (9/11)


AA
AB
TO
DG-BOARD
(2/11)
AC
AD
AE
AF
LNB_OFF
ODU_ON/OFF
ODU_ON/OFF
ODU +B
ODU +B
TP4035
MAIN3.3V
FL4004
J0HABH000012
MAIN3.3V(1.55A/1.847A)
MAIN3.3V(1.55A/1.847A)
TP4009
SUB3.3V
FL4005
J0HABH000012
SUB3.3V
TP4010
BS_SUB9V
FL4006
J0HABH000012
SUB9V1(1A/0.766A)
SUB9V1(1A/0.766A)
TP4029
MAIN9V
FL4007
J0HABH000012
MAIN9V(0.1A/NC)
TP4036
MAIN2.5V
FL4008
J0HABH000012
MAIN2.5V (0.98A/NC)
MAIN2.5V (0.98A/NC)
TP4011
SUB5V
FL4009
J0HABH000012
SUB5V(0.63A)
MAIN5V
FL4010
J0HABH000012
MAIN5V(0.37A/0.46A)
TP4013
STB_5V
TUNER_MAIN_ON
Tuner_Main_ON
SOS
PA_SOS
TUNER_SUB_ON
TUNER_SUB_ON
0
0
0
0
0
0
3.3
3.3
0
3.3
0
9.0
9.0
0
9.0
0
2.5
2.5
0
0
5.0
0
5.0
0
5.0
0
3.3
0
2.6
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
DG20
TO
PA-BOARD
(PA20)

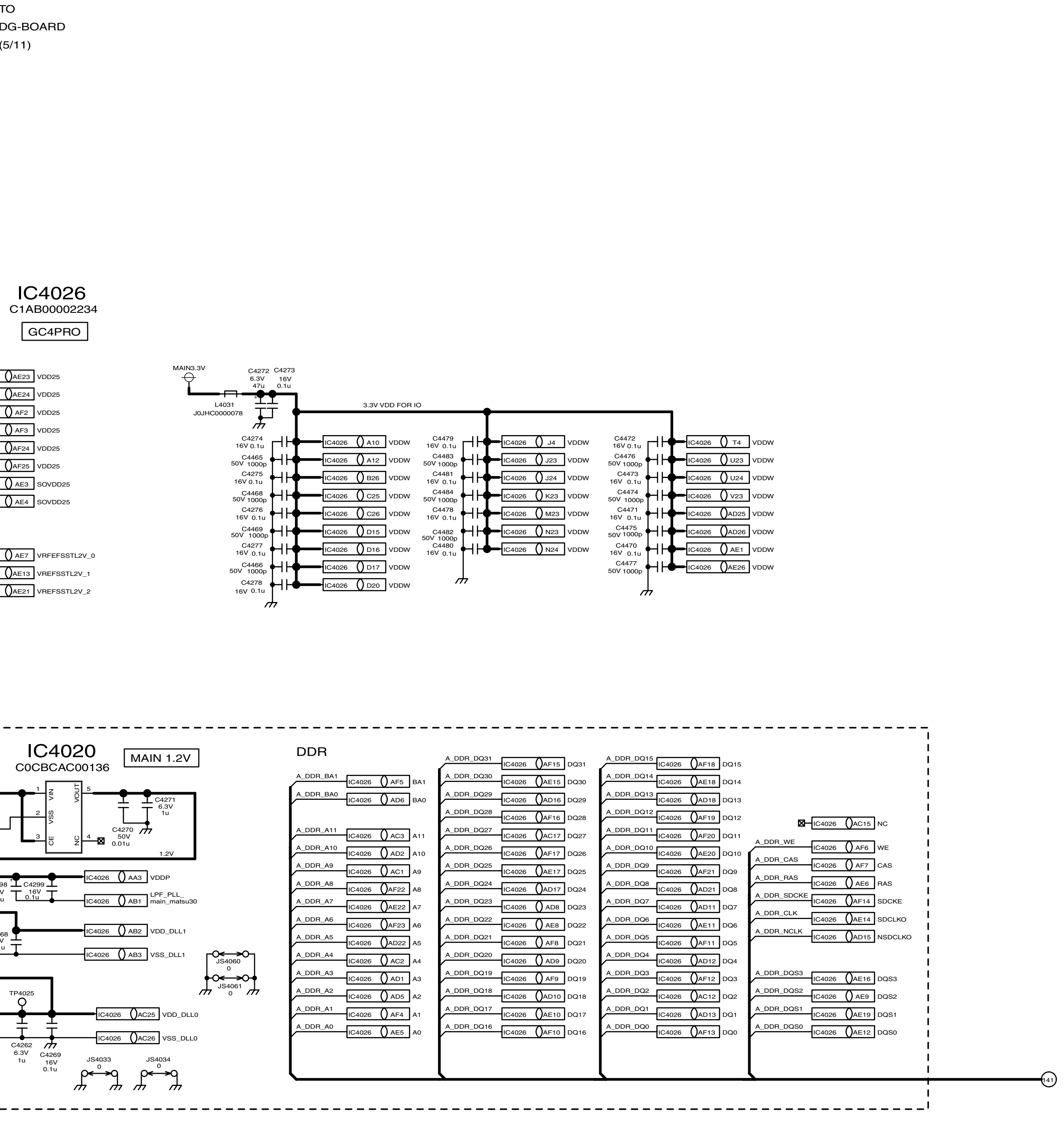
TH-42PM50U
DG-Board (9 of 11) Schematic Diagram

12 13 14 15

13.32. DG-Board (10 of 11) Schematic Diagram

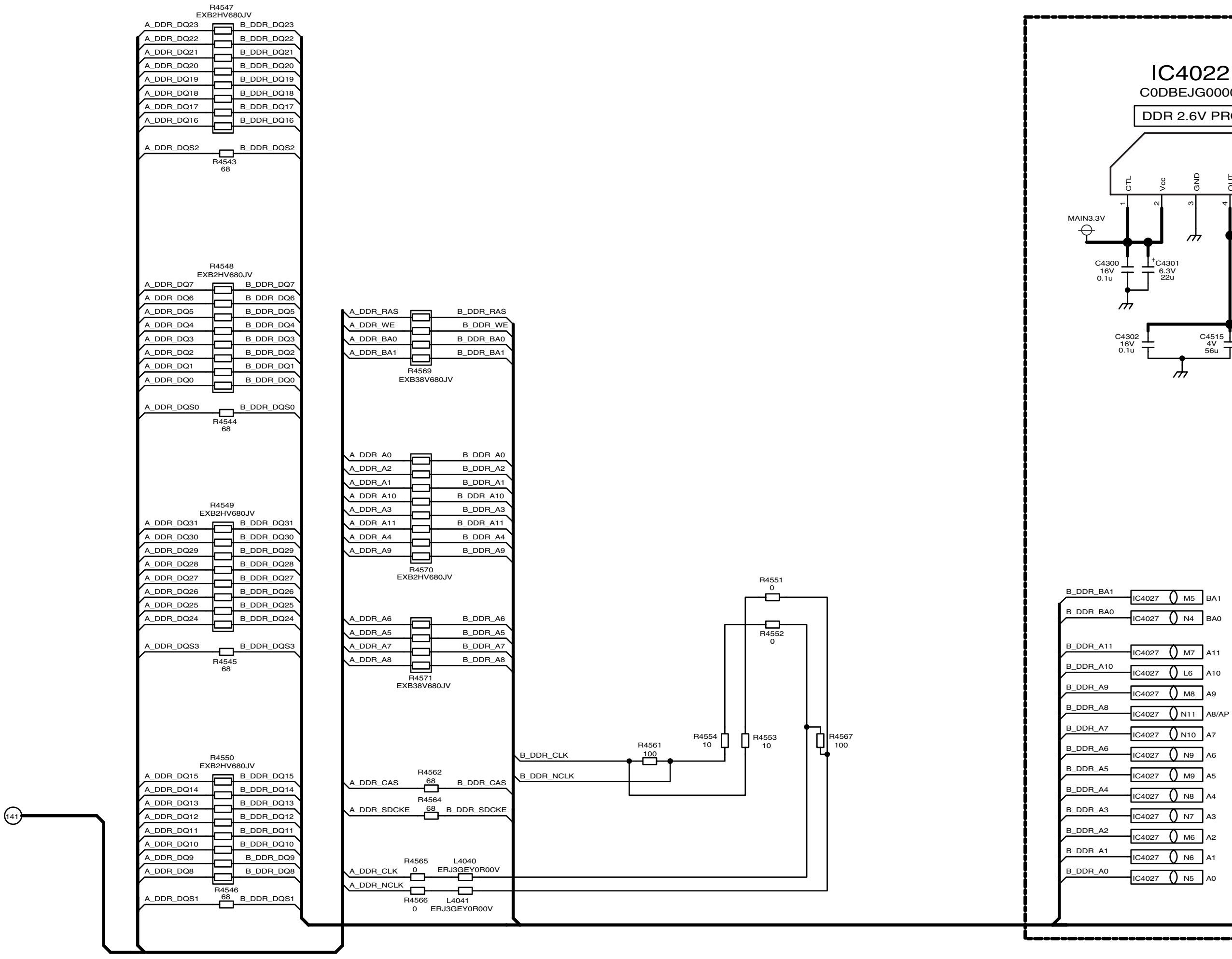

BA
BB
TO
DG-BOARD
(5/11)
IC4026
C1AB00002234
GC4PRO
MAIN1.2V
L4024
J0JHC0000078
C4457
6.3V
1u
C4236
6.3V
47u
C4237
16V
0.1u
1.2V VDD FOR CORE
DDR2.6V_PRO
C4459
6.3V
1u
L4025
J0JHC0000078
C4250
16V
0.1u
C4249
6.3V
47u
2.5V VDD FOR STTL_2
VDD
VDD25
SOVDD25
VREFSSTL2V_0
VREFSSTL2V_1
VREFSSTL2V_2
R4683
1.74k
R4682
1.74k
NRST
PORT-B(FS&HDMI)
YGIN9
YGIN8
YGIN7
YGIN6
YGIN5
YGIN4
YGIN3
YGIN2
YGIN1
YGIN0
YIB9
YIB8
YIB7
YIB6
YIB5
YIB4
YIB3
YIB2
YIB1
YIB0
UBIN9
UBIN8
UBIN7
UBIN6
UBIN5
UBIN4
UBIN3
UBIN2
UBIN1
UBIN0
UVIB9
UVIB8
UVIB7
UVIB6
UVIB5
UVIB4
UVIB3
UVIB2
UVIB1
UVIB0
HSIB
VSIB
AP_DE
CLKINB2
CLKINB
VSIB_IBTDV
ENBIB
CLKIB2
CLKIB1
R4392
10k
IC4020
C0CBCAC00136
MAIN2.5V
L4028
J0JCC0000241
C4296
6.3V
1u
C4514
6.3V
1u
C4259
6.3V
1u
C4261
50V
0.01u
VIN
VSS
CE
VOUT
NC
R4560
100
C4298
6.3V
33u
C4299
16V
0.1u
R4661
0
R4660
0
C4492
6.3V
1u
C4268
16V
0.1u
1.2V
TP4025
C4297
50V
0.01u
C4262
6.3V
1u
C4269
16V
0.1u
JS4033
0

DG-BOARD TNPA3625AK (10/11)

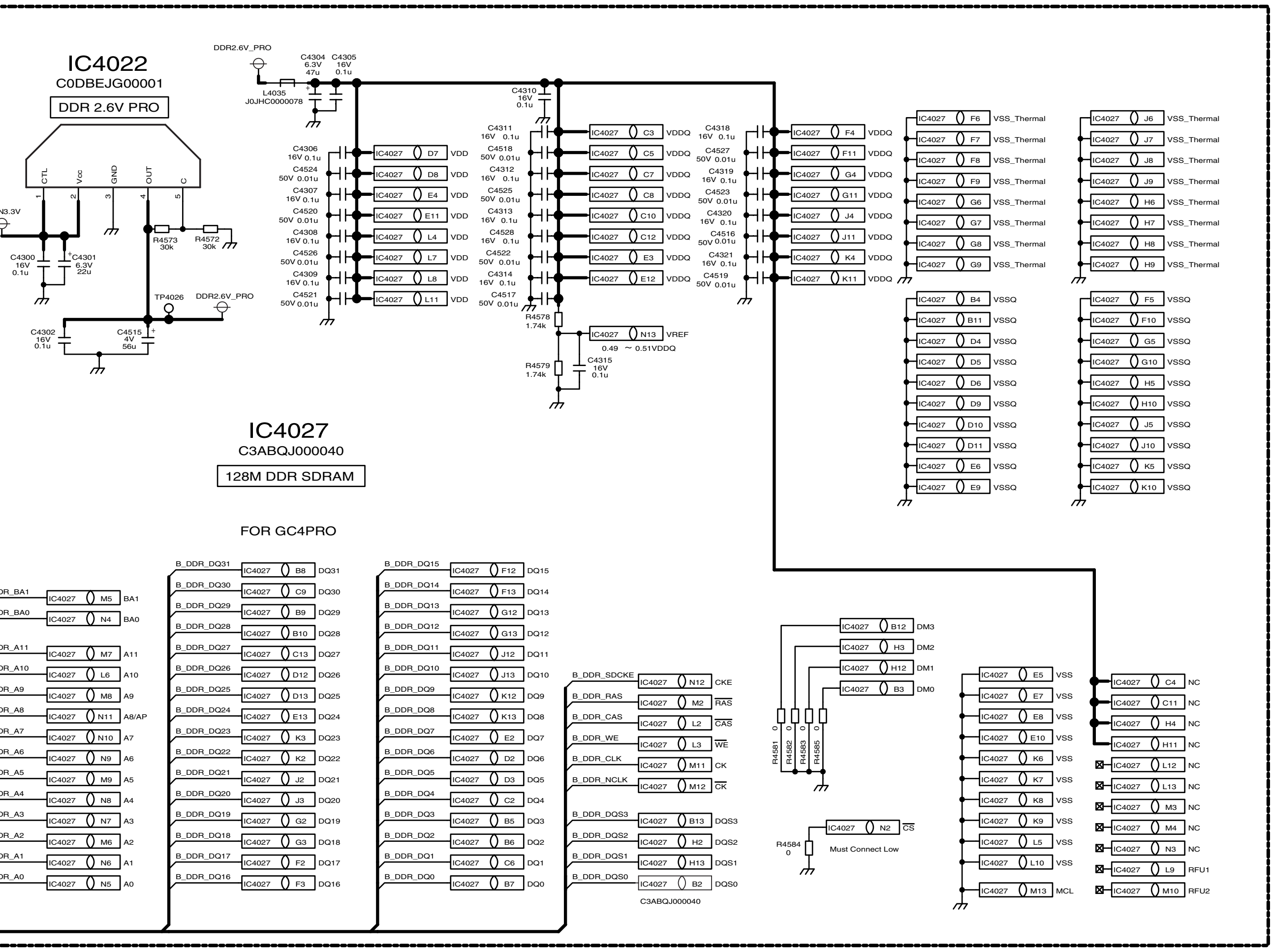

TO
DG-BOARD
(5/11)
IC4026
C1AB00002234
GC4PRO
AE23 VDD25
AE24 VDD25
AF2 VDD25
AF3 VDD25
AF24 VDD25
AF25 VDD25
AE3 SOVDD25
AE4 SOVDD25
AE7 VRFEFSSTL2V_0
AE13 VREFSSTL2V_1
AE21 VREFSSTL2V_2
MAIN3.3V
C4272 6.3V 47u
C4273 16V 0.1u
L4031
J0JHC0000078
3.3V VDD FOR IO
C4274 16V 0.1u
C4465 50V 1000p
C4275 16V 0.1u
C4468 50V 1000p
C4276 16V 0.1u
C4469 50V 1000p
C4277 16V 0.1u
C4466 50V 1000p
C4278 16V 0.1u
IC4026 A10 VDDW
IC4026 A12 VDDW
IC4026 B26 VDDW
IC4026 C25 VDDW
IC4026 C26 VDDW
IC4026 D15 VDDW
IC4026 D16 VDDW
IC4026 D17 VDDW
IC4026 D20 VDDW
C4479 16V 0.1u
C4483 50V 1000p
C4481 16V 0.1u
C4484 50V 1000p
C4478 16V 0.1u
C4482 50V 1000p
C4480 16V 0.1u
IC4026 J4 VDDW
IC4026 J23 VDDW
IC4026 J24 VDDW
IC4026 K23 VDDW
IC4026 M23 VDDW
IC4026 N23 VDDW
IC4026 N24 VDDW
C4472 16V 0.1u
C4476 50V 1000p
C4473 16V 0.1u
C4474 50V 1000p
C4471 16V 0.1u
C4475 50V 1000p
C4470 16V 0.1u
C4477 50V 1000p
IC4026 T4 VDDW
IC4026 U23 VDDW
IC4026 U24 VDDW
IC4026 V23 VDDW
IC4026 AD25 VDDW
IC4026 AD26 VDDW
IC4026 AE1 VDDW
IC4026 AE26 VDDW
IC4020
C0CBCAC00136
MAIN 1.2V
1 VIN
2 VSS
3 CE
4 NC
5 VOUT
C4271 6.3V 1u
C4270 50V 0.01u
1.2V
C4299 16V 0.1u
IC4026 AA3 VDDP
IC4026 AB1 LPF_PLL_ main_matsu30
IC4026 AB2 VDD_DLL1
IC4026 AB3 VSS_DLL1
JS4060 0
JS4061 0
TP4025
IC4026 AC25 VDD_DLL0
IC4026 AC26 VSS_DLL0
C4262 6.3V 1u
C4269 16V 0.1u
JS4033 0
JS4034 0
DDR
A_DDR_BA1 IC4026 AF5 BA1
A_DDR_BA0 IC4026 AD6 BA0
A_DDR_A11 IC4026 AC3 A11
A_DDR_A10 IC4026 AD2 A10
A_DDR_A9 IC4026 AC1 A9
A_DDR_A8 IC4026 AF22 A8
A_DDR_A7 IC4026 AE22 A7
A_DDR_A6 IC4026 AF23 A6
A_DDR_A5 IC4026 AD22 A5
A_DDR_A4 IC4026 AC2 A4
A_DDR_A3 IC4026 AD1 A3
A_DDR_A2 IC4026 AD5 A2
A_DDR_A1 IC4026 AF4 A1
A_DDR_A0 IC4026 AE5 A0
A_DDR_DQ31 IC4026 AF15 DQ31
A_DDR_DQ30 IC4026 AE15 DQ30
A_DDR_DQ29 IC4026 AD16 DQ29
A_DDR_DQ28 IC4026 AF16 DQ28
A_DDR_DQ27 IC4026 AC17 DQ27
A_DDR_DQ26 IC4026 AF17 DQ26
A_DDR_DQ25 IC4026 AE17 DQ25
A_DDR_DQ24 IC4026 AD17 DQ24
A_DDR_DQ23 IC4026 AD8 DQ23
A_DDR_DQ22 IC4026 AE8 DQ22
A_DDR_DQ21 IC4026 AF8 DQ21
A_DDR_DQ20 IC4026 AD9 DQ20
A_DDR_DQ19 IC4026 AF9 DQ19
A_DDR_DQ18 IC4026 AD10 DQ18
A_DDR_DQ17 IC4026 AE10 DQ17
A_DDR_DQ16 IC4026 AF10 DQ16
A_DDR_DQ15 IC4026 AF18 DQ15
A_DDR_DQ14 IC4026 AE18 DQ14
A_DDR_DQ13 IC4026 AD18 DQ13
A_DDR_DQ12 IC4026 AF19 DQ12
A_DDR_DQ11 IC4026 AF20 DQ11
A_DDR_DQ10 IC4026 AE20 DQ10
A_DDR_DQ9 IC4026 AF21 DQ9
A_DDR_DQ8 IC4026 AD21 DQ8
A_DDR_DQ7 IC4026 AD11 DQ7
A_DDR_DQ6 IC4026 AE11 DQ6
A_DDR_DQ5 IC4026 AF11 DQ5
A_DDR_DQ4 IC4026 AD12 DQ4
A_DDR_DQ3 IC4026 AF12 DQ3
A_DDR_DQ2 IC4026 AC12 DQ2
A_DDR_DQ1 IC4026 AD13 DQ1
A_DDR_DQ0 IC4026 AF13 DQ0
IC4026 AC15 NC
A_DDR_WE IC4026 AF6 WE
A_DDR_CAS IC4026 AF7 CAS
A_DDR_RAS IC4026 AE6 RAS
A_DDR_SDCKE IC4026 AF14 SDCKE
A_DDR_CLK IC4026 AE14 SDCLKO
A_DDR_NCLK IC4026 AD15 NSDCLKO
A_DDR_DQS3 IC4026 AE16 DQS3
A_DDR_DQS2 IC4026 AE9 DQS2
A_DDR_DQS1 IC4026 AE19 DQS1
A_DDR_DQS0 IC4026 AE12 DQS0
141

TH-42PM50U
DG-Board (10 of 11) Schematic Diagram

13.33. DG-Board (11 of 11) Schematic Diagram


R4547
EXB2HV680JV
A_DDR_DQ23
A_DDR_DQ22
A_DDR_DQ21
A_DDR_DQ20
A_DDR_DQ19
A_DDR_DQ18
A_DDR_DQ17
A_DDR_DQ16
B_DDR_DQ23
B_DDR_DQ22
B_DDR_DQ21
B_DDR_DQ20
B_DDR_DQ19
B_DDR_DQ18
B_DDR_DQ17
B_DDR_DQ16
A_DDR_DQS2
B_DDR_DQS2
R4543
68
R4548
EXB2HV680JV
A_DDR_DQ7
A_DDR_DQ6
A_DDR_DQ5
A_DDR_DQ4
A_DDR_DQ3
A_DDR_DQ2
A_DDR_DQ1
A_DDR_DQ0
B_DDR_DQ7
B_DDR_DQ6
B_DDR_DQ5
B_DDR_DQ4
B_DDR_DQ3
B_DDR_DQ2
B_DDR_DQ1
B_DDR_DQ0
A_DDR_DQS0
B_DDR_DQS0
R4544
68
R4549
EXB2HV680JV
A_DDR_DQ31
A_DDR_DQ30
A_DDR_DQ29
A_DDR_DQ28
A_DDR_DQ27
A_DDR_DQ26
A_DDR_DQ25
A_DDR_DQ24
B_DDR_DQ31
B_DDR_DQ30
B_DDR_DQ29
B_DDR_DQ28
B_DDR_DQ27
B_DDR_DQ26
B_DDR_DQ25
B_DDR_DQ24
A_DDR_DQS3
B_DDR_DQS3
R4545
68
R4550
EXB2HV680JV
A_DDR_DQ15
A_DDR_DQ14
A_DDR_DQ13
A_DDR_DQ12
A_DDR_DQ11
A_DDR_DQ10
A_DDR_DQ9
A_DDR_DQ8
B_DDR_DQ15
B_DDR_DQ14
B_DDR_DQ13
B_DDR_DQ12
B_DDR_DQ11
B_DDR_DQ10
B_DDR_DQ9
B_DDR_DQ8
R4546
68
A_DDR_DQS1
B_DDR_DQS1
141
A_DDR_RAS
A_DDR_WE
A_DDR_BA0
A_DDR_BA1
B_DDR_RAS
B_DDR_WE
B_DDR_BA0
B_DDR_BA1
R4569
EXB38V680JV
A_DDR_A0
A_DDR_A2
A_DDR_A1
A_DDR_A10
A_DDR_A3
A_DDR_A11
A_DDR_A4
A_DDR_A9
B_DDR_A0
B_DDR_A2
B_DDR_A1
B_DDR_A10
B_DDR_A3
B_DDR_A11
B_DDR_A4
B_DDR_A9
R4570
EXB2HV680JV
A_DDR_A6
A_DDR_A5
A_DDR_A7
A_DDR_A8
B_DDR_A6
B_DDR_A5
B_DDR_A7
B_DDR_A8
R4571
EXB38V680JV
A_DDR_CAS
R4562
68
B_DDR_CAS
A_DDR_SDCKE
R4564
68
B_DDR_SDCKE
A_DDR_CLK
A_DDR_NCLK
R4565
0
L4040
ERJ3GEY0R00V
R4566
0
L4041
ERJ3GEY0R00V
B_DDR_CLK
B_DDR_NCLK
R4561
100
R4551
0
R4552
0
R4554
10
R4553
10
R4567
100
IC4022
C0DBEJG000
DDR 2.6V PR
CTL
Vcc
GND
OUT
1
2
3
4
MAIN3.3V
C4300
16V
0.1u
C4301
6.3V
22u
C4302
16V
0.1u
C4515
4V
56u
B_DDR_BA1
B_DDR_BA0
B_DDR_A11
B_DDR_A10
B_DDR_A9
B_DDR_A8
B_DDR_A7
B_DDR_A6
B_DDR_A5
B_DDR_A4
B_DDR_A3
B_DDR_A2
B_DDR_A1
B_DDR_A0
IC4027 M5 BA1
IC4027 N4 BA0
IC4027 M7 A11
IC4027 L6 A10
IC4027 M8 A9
IC4027 N11 A8/AP
IC4027 N10 A7
IC4027 N9 A6
IC4027 M9 A5
IC4027 N8 A4
IC4027 N7 A3
IC4027 M6 A2
IC4027 N6 A1
IC4027 N5 A0

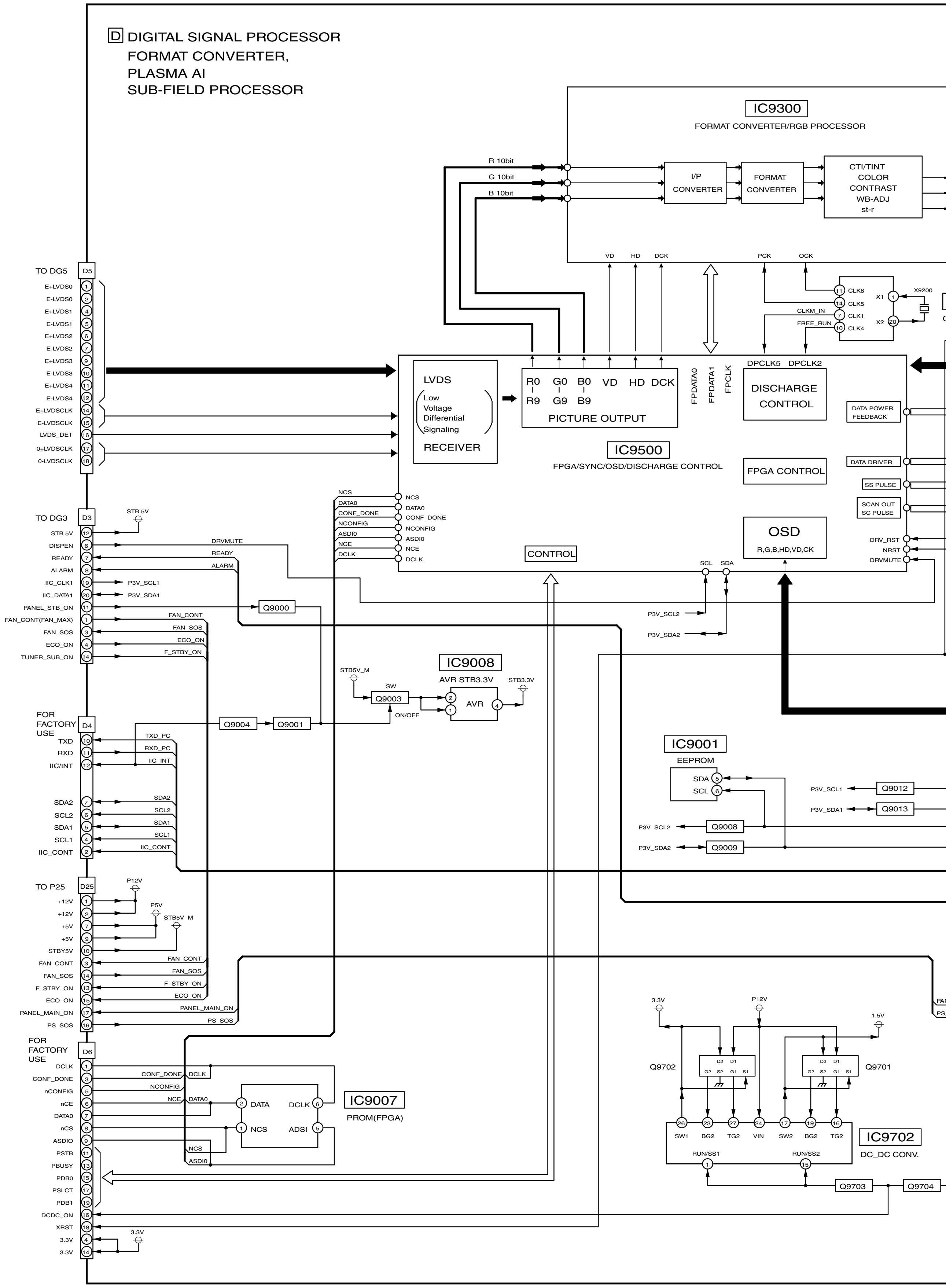
! DG-BOARD TNPA3625AK (11/11)


IC4022
C0DBEJG00001
DDR 2.6V PRO
DDR2.6V_PRO
L4035
J0JHC0000078
TP4026
IC4027
C3ABQJ000040
128M DDR SDRAM
FOR GC4PRO
VDD
VDDQ
VREF
0.49 ~ 0.51VDDQ
VSS_Thermal
VSSQ
VSS
NC
RFU1
RFU2
MCL
CKE
RAS
CAS
WE
CK
CS
DQS0
DQS1
DQS2
DQS3
DM0
DM1
DM2
DM3
Must Connect Low

TH-42PM50U
DG-Board (11 of 11) Schematic Diagram

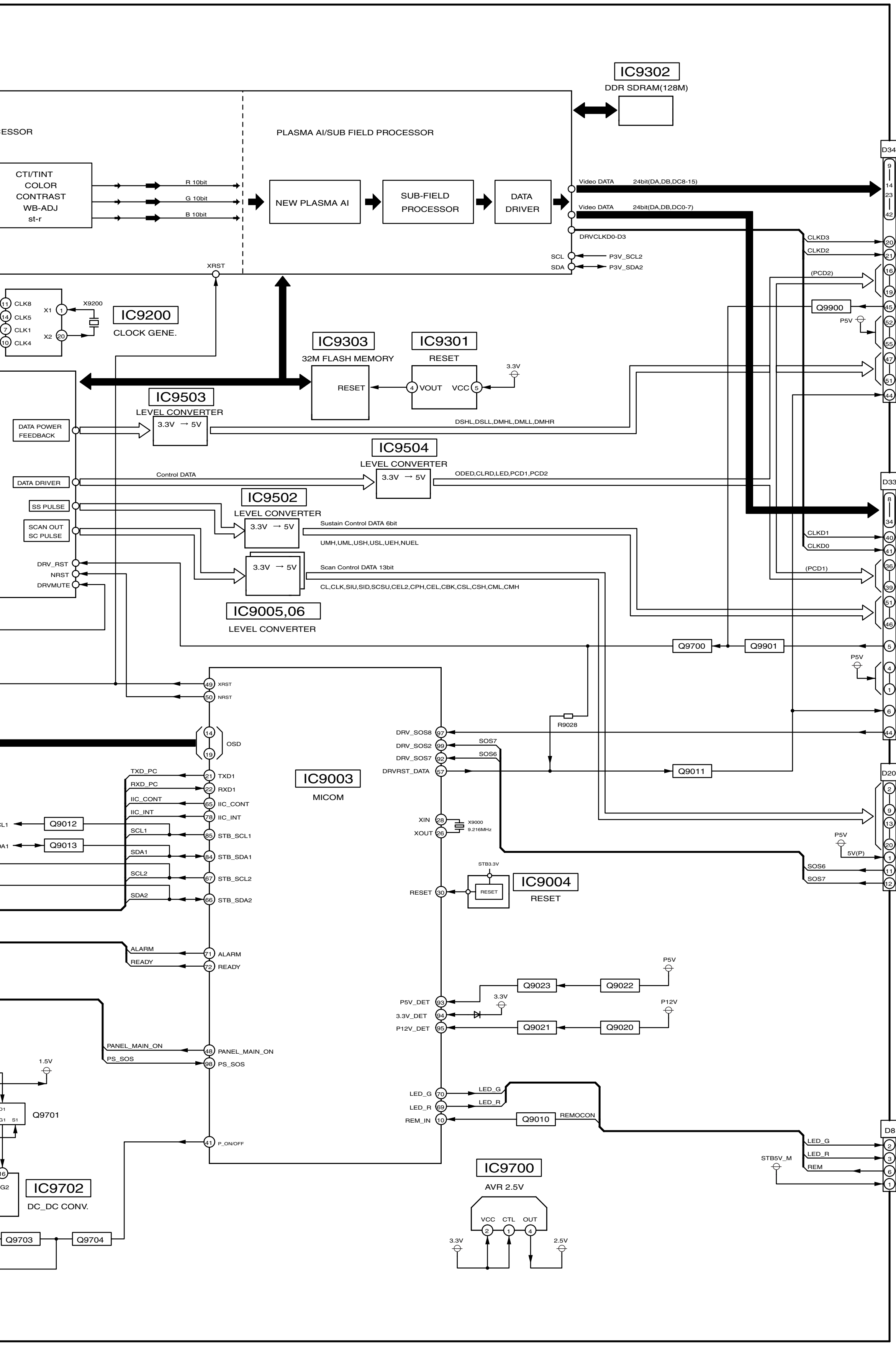
42 43 44 45

13.34. D-Board Block Diagram



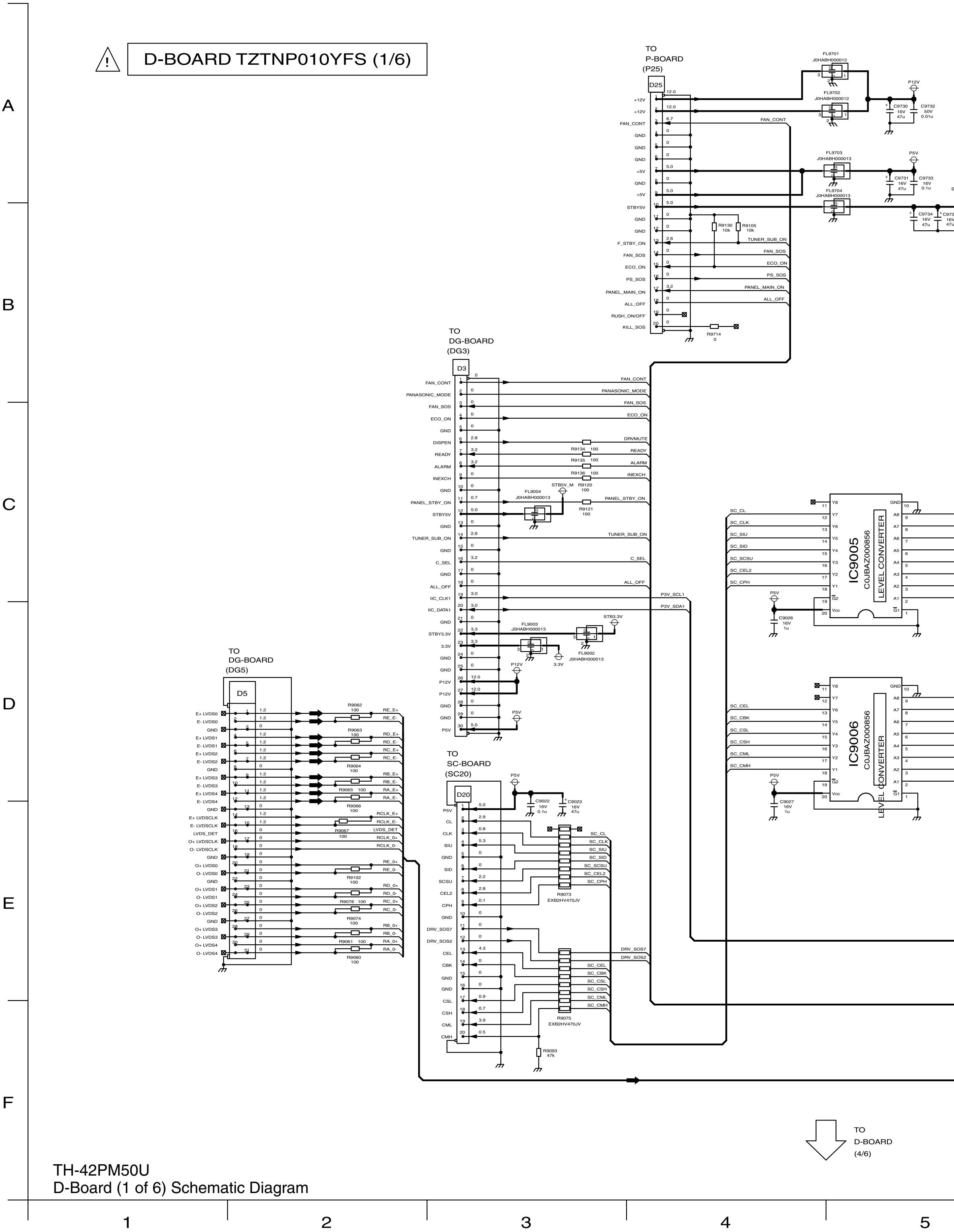
D DIGITAL SIGNAL PROCESSOR
FORMAT CONVERTER,
PLASMA AI
SUB-FIELD PROCESSOR
IC9300
FORMAT CONVERTER/RGB PROCESSOR
R 10bit
G 10bit
B 10bit
I/P CONVERTER
FORMAT CONVERTER
CTI/TINT
COLOR
CONTRAST
WB-ADJ
st-r
VD
HD
DCK
PCK
OCK
CLK8
CLK5
CLK1
CLK4
X1
X2
X9200
CLKM_IN
FREE_RUN
TO DG5
D5
E+LVDS0
E-LVDS0
E+LVDS1
E-LVDS1
E+LVDS2
E-LVDS2
E+LVDS3
E-LVDS3
E+LVDS4
E-LVDS4
E+LVDSCLK
E-LVDSCLK
LVDS_DET
0+LVDSCLK
0-LVDSCLK
LVDS
Low
Voltage
Differential
Signaling
RECEIVER
R0 G0 B0 VD HD DCK
R9 G9 B9
PICTURE OUTPUT
FPDATA0
FPDATA1
FPCLK
DPCLK5
DPCLK2
DISCHARGE CONTROL
DATA POWER FEEDBACK
DATA DRIVER
SS PULSE
SCAN OUT
SC PULSE
IC9500
FPGA/SYNC/OSD/DISCHARGE CONTROL
FPGA CONTROL
OSD
R,G,B,HD,VD,CK
DRV_RST
NRST
DRVMUTE
CONTROL
NCS
DATA0
CONF_DONE
NCONFIG
ASDI0
NCE
DCLK
SCL
SDA
TO DG3
D3
STB 5V
STB 5V
DISPEN
READY
ALARM
IIC_CLK1
IIC_DATA1
PANEL_STB_ON
FAN_CONT(FAN_MAX)
FAN_SOS
ECO_ON
TUNER_SUB_ON
DRVMUTE
READY
ALARM
P3V_SCL1
P3V_SDA1
Q9000
FAN_CONT
FAN_SOS
ECO_ON
F_STBY_ON
P3V_SCL2
P3V_SDA2
IC9008
AVR STB3.3V
STB5V_M
SW
Q9003
ON/OFF
AVR
STB3.3V
FOR FACTORY USE
D4
TXD
RXD
IIC/INT
TXD_PC
RXD_PC
IIC_INT
Q9004
Q9001
SDA2
SCL2
SDA1
SCL1
IIC_CONT
IC9001
EEPROM
SDA
SCL
P3V_SCL1
P3V_SDA1
Q9012
Q9013
P3V_SCL2
P3V_SDA2
Q9008
Q9009
TO P25
D25
P12V
+12V
+12V
+5V
+5V
STBY5V
FAN_CONT
FAN_SOS
F_STBY_ON
ECO_ON
PANEL_MAIN_ON
PS_SOS
P5V
STB5V_M
FOR FACTORY USE
D6
DCLK
CONF_DONE
nCONFIG
nCE
DATA0
nCS
ASDIO
PSTB
PBUSY
PDB0
PSLCT
PDB1
DCDC_ON
XRST
3.3V
3.3V
CONF_DONE
NCONFIG
NCE
DATA0
NCS
ASDI0
DATA
DCLK
NCS
ADSI
IC9007
PROM(FPGA)
3.3V
P12V
1.5V
Q9702
Q9701
D2 D1
G2 S2 G1 S1
SW1 BG2 TG2 VIN SW2 BG2 TG2
RUN/SS1
RUN/SS2
IC9702
DC_DC CONV.
Q9703
Q9704

TH-42PM50U
D-Board Block Diagram

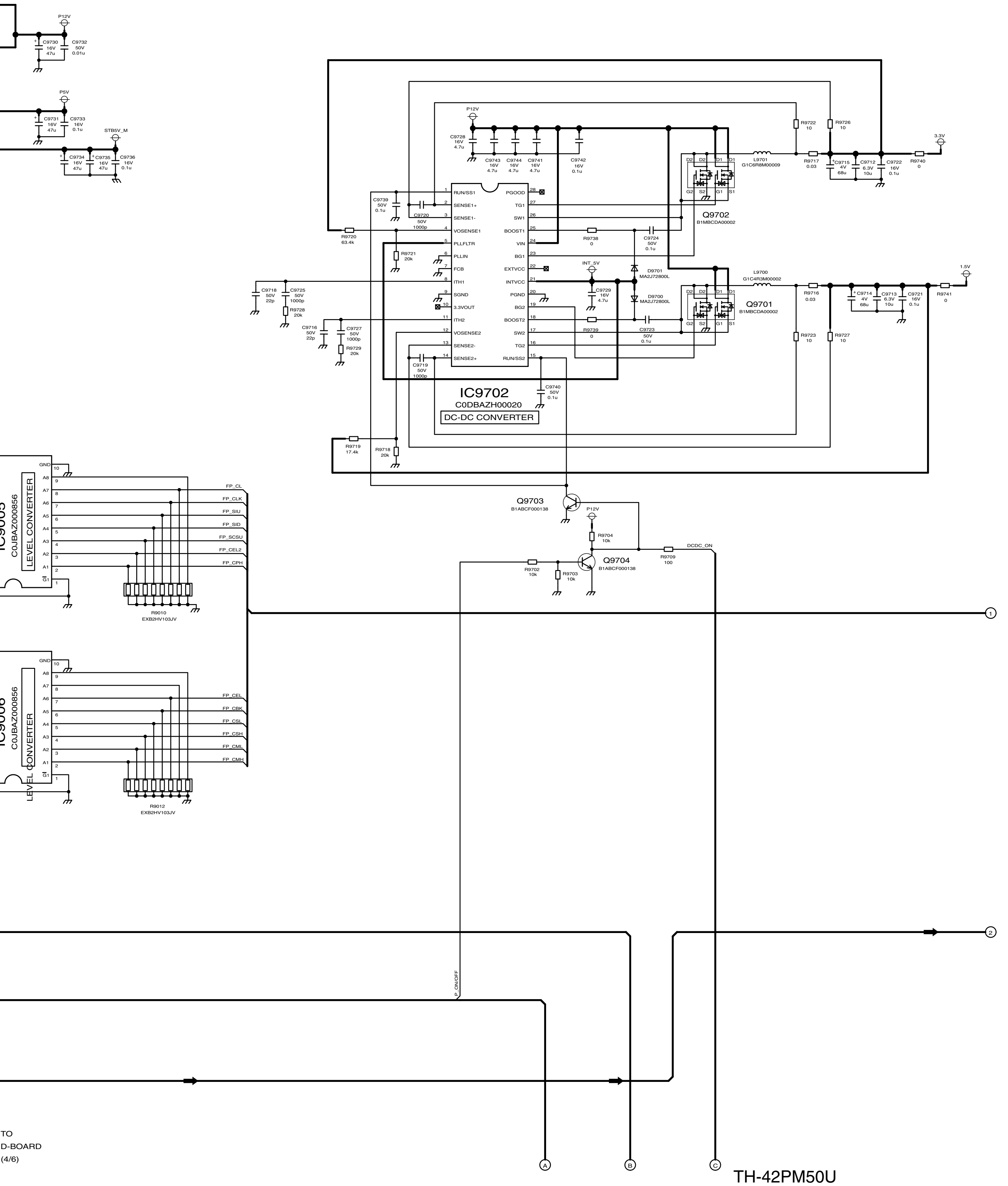

IC9302
DDR SDRAM(128M)
ESSOR
PLASMA AI/SUB FIELD PROCESSOR
CTI/TINT
COLOR
CONTRAST
WB-ADJ
st-r
R 10bit
G 10bit
B 10bit
NEW PLASMA AI
SUB-FIELD PROCESSOR
DATA DRIVER
Video DATA
24bit(DA,DB,DC8-15)
Video DATA
24bit(DA,DB,DC0-7)
DRVCLKD0-D3
SCL
SDA
P3V_SCL2
P3V_SDA2
XRST
D34
TO C11
DATA L
L-DOWN
DATA L TIMING
DATA DRIVE
5V_DET
P5V
DATA
POWER
FEED BACK
DRVRST
CLKD3
CLKD2
(PCD2)
Q9900
CLK8
CLK5
CLK1
CLK4
X1
X2
X9200
IC9200
CLOCK GENE.
IC9303
32M FLASH MEMORY
IC9301
RESET
RESET
VOUT
VCC
3.3V
IC9503
LEVEL CONVERTER
3.3V → 5V
DATA POWER
FEEDBACK
DSHL,DSLL,DMHL,DMLL,DMHR
IC9504
LEVEL CONVERTER
3.3V → 5V
DATA DRIVER
Control DATA
ODED,CLRD,LED,PCD1,PCD2
D33
TO C21
DATA R
R-DOWN
SS PULSE
IC9502
LEVEL CONVERTER
3.3V → 5V
Sustain Control DATA 6bit
UMH,UML,USH,USL,UEH,NUEL
SCAN OUT
SC PULSE
CLKD1
CLKD0
DATA R TIMING
DRV_RST
NRST
DRVMUTE
3.3V → 5V
Scan Control DATA 13bit
CL,CLK,SIU,SID,SCSU,CEL2,CPH,CEL,CBK,CSL,CSH,CML,CMH
(PCD1)
DATA DRIVE
IC9005,06
LEVEL CONVERTER
SUSTAIN
DATA
Q9700
Q9901
5V_DET
P5V
P5V
DRVRST
R9028
DRV_SOS8
XRST
NRST
OSD
DRV_SOS8
DRV_SOS2
DRV_SOS7
DRVRST_DATA
SOS7
SOS6
Q9011
D20
TO SC20
TXD_PC
RXD_PC
IIC_CONT
IIC_INT
TXD1
RXD1
IIC_CONT
IIC_INT
IC9003
MICOM
SCAN
DATA
CL1
DA1
Q9012
Q9013
SCL1
SDA1
SCL2
SDA2
STB_SCL1
STB_SDA1
STB_SCL2
STB_SDA2
XIN
XOUT
X9000
9.216MHz
P5V
5V(P)
P5V
SOS6
SOS7
DRV_SOS6
DRV_SOS7
STB3.3V
RESET
RESET
IC9004
RESET
ALARM
READY
ALARM
READY
P5V
Q9023
Q9022
3.3V
P5V_DET
3.3V_DET
P12V_DET
P12V
Q9021
Q9020
PANEL_MAIN_ON
PS_SOS
PANEL_MAIN_ON
PS_SOS
1.5V
LED_G
LED_R
REM_IN
LED_G
LED_R
Q9010
REMOCON
NOT USED
D8
TO K3
Q9701
LED_G
LED_R
REM
STB5V_M
LED_G
LED_R
REMOCON
STB5V
P_ON/OFF
IC9702
DC_DC CONV.
IC9700
AVR 2.5V
VCC
CTL
OUT
3.3V
2.5V
Q9703
Q9704

TH-42PM50U
D-Board Block Diagram

13.35. D-Board (1 of 6) Schematic Diagram


D-BOARD TZTNP010YFS (1/6)
A
B
C
D
E
F
1
2
3
4
5
TO P-BOARD (P25)
D25
+12V
+12V
FAN_CONT
GND
+5V
STBY5V
F_STBY_ON
FAN_SOS
ECO_ON
PS_SOS
PANEL_MAIN_ON
ALL_OFF
RUSH_ON/OFF
KILL_SOS
FL9701 J0HABH000012
FL9702 J0HABH000012
FL9703 J0HABH000013
FL9704 J0HABH000013
P12V
P5V
C9730 16V 47u
C9732 50V 0.01u
C9731 16V 47u
C9733 16V 0.1u
C9734 16V 47u
R9130 10k
R9105 10k
R9714 0
TUNER_SUB_ON
TO DG-BOARD (DG3)
D3
PANASONIC_MODE
DISPEN
READY
ALARM
INEXCH
PANEL_STBY_ON
TUNER_SUB_ON
C_SEL
IIC_CLK1
IIC_DATA1
STBY3.3V
3.3V
P12V
P5V
DRVMUTE
R9134 100
R9135 100
R9136 100
R9120 100
R9121 100
STB5V_M
FL9004 J0HABH000013
FL9003 J0HABH000013
FL9002 J0HABH000013
STB3.3V
P3V_SCL1
P3V_SDA1
TO DG-BOARD (DG5)
D5
E+ LVDS0
E- LVDS0
E+ LVDS1
E- LVDS1
E+ LVDS2
E- LVDS2
E+ LVDS3
E- LVDS3
E+ LVDS4
E- LVDS4
E+ LVDSCLK
E- LVDSCLK
LVDS_DET
O+ LVDSCLK
O- LVDSCLK
O+ LVDS0
O- LVDS0
O+ LVDS1
O- LVDS1
O+ LVDS2
O- LVDS2
O+ LVDS3
O- LVDS3
O+ LVDS4
O- LVDS4
R9062 100
R9063 100
R9064 100
R9065 100
R9066 100
R9067 100
R9102 100
R9076 100
R9074 100
R9061 100
R9060 100
RE_E+
RE_E-
RD_E+
RD_E-
RC_E+
RC_E-
RB_E+
RB_E-
RA_E+
RA_E-
RCLK_E+
RCLK_E-
LVDS_DET
RCLK_O+
RCLK_O-
RE_O+
RE_O-
RD_O+
RD_O-
RC_O+
RC_O-
RB_O+
RB_O-
RA_O+
RA_O-
TO SC-BOARD (SC20)
D20
P5V
CL
CLK
SIU
SID
SCSU
CEL2
CPH
DRV_SOS7
DRV_SOS2
CEL
CBK
CSL
CSH
CML
CMH
C9022 16V 0.1u
C9023 16V 47u
R9073 EXB2HV470JV
R9075 EXB2HV470JV
R9093 47k
SC_CL
SC_CLK
SC_SIU
SC_SID
SC_SCSU
SC_CEL2
SC_CPH
SC_CEL
SC_CBK
SC_CSL
SC_CSH
SC_CML
SC_CMH
IC9005 C0JBAZ000856 LEVEL CONVERTER
IC9006 C0JBAZ000856 LEVEL CONVERTER
C9026 16V 1u
C9027 16V 1u
Vcc
TO D-BOARD (4/6)

TH-42PM50U
D-Board (1 of 6) Schematic Diagram

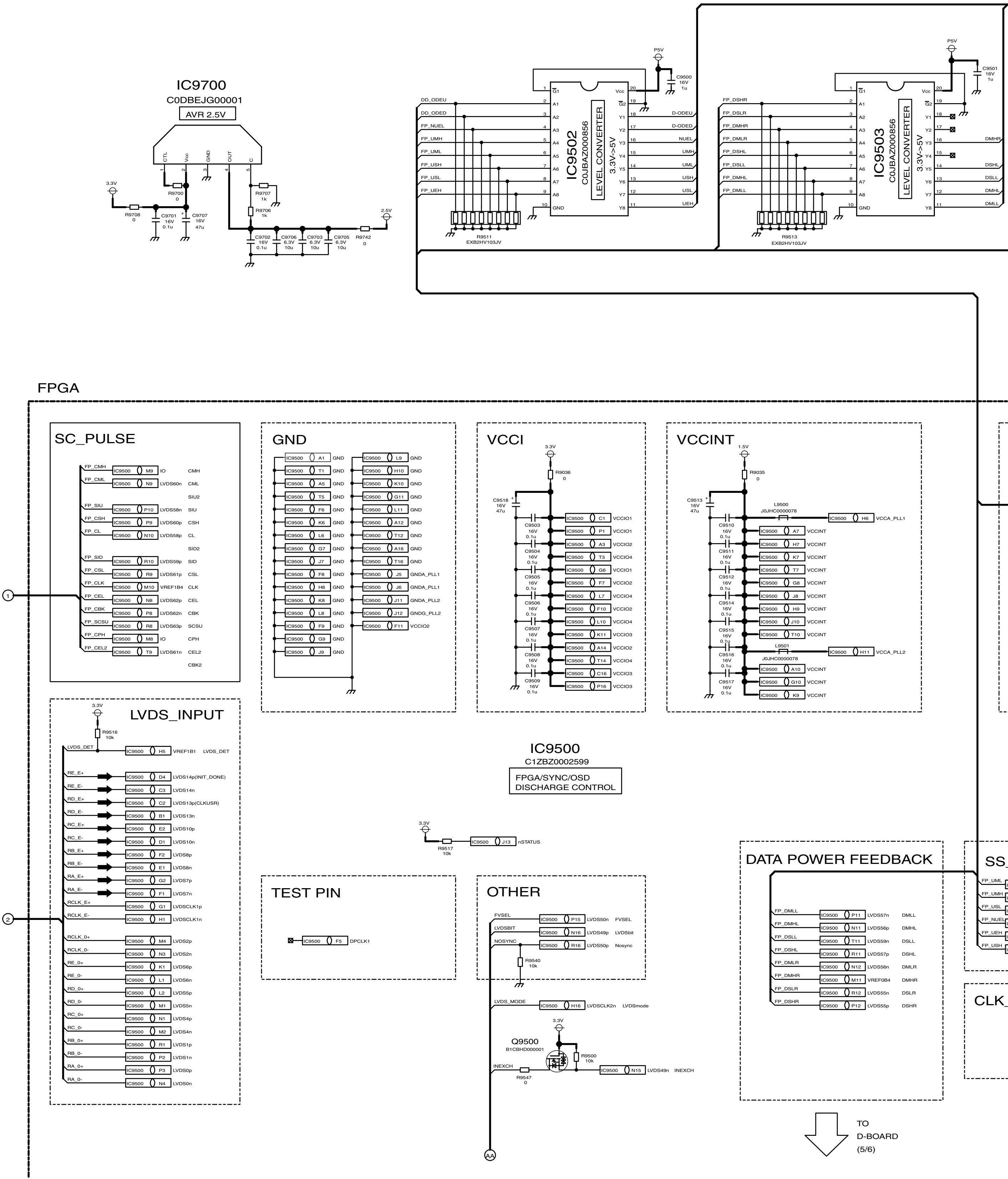

P12V
C9730 16V 47u
C9732 50V 0.01u
P5V
C9731 16V 47u
C9733 16V 0.1u
STB5V_M
C9734 16V 47u
C9735 16V 47u
C9736 16V 0.1u
P12V
C9728 16V 4.7u
C9743 16V 4.7u
C9744 16V 4.7u
C9741 16V 4.7u
C9742 16V 0.1u
R9722 10
R9726 10
L9701 G1C6R8M00009
R9717 0.03
C9715 4V 68u
C9712 6.3V 10u
C9722 16V 0.1u
R9740 0
3.3V
Q9702 B1MBCDA00002
C9739 50V 0.1u
C9720 50V 1000p
R9720 63.4k
R9721 20k
RUN/SS1
SENSE1+
SENSE1-
VOSENSE1
PLLFLTR
PLLIN
FCB
ITH1
SGND
3.3VOUT
ITH2
VOSENSE2
SENSE2-
SENSE2+
PGOOD
TG1
SW1
BOOST1
VIN
BG1
EXTVCC
INTVCC
PGND
BG2
BOOST2
SW2
TG2
RUN/SS2
R9738 0
C9724 50V 0.1u
INT_5V
D9701 MA2J72800L
D9700 MA2J72800L
C9729 16V 4.7u
L9700 G1C4R3M00002
R9716 0.03
C9714 4V 68u
C9713 6.3V 10u
C9721 16V 0.1u
R9741 0
1.5V
Q9701 B1MBCDA00002
C9718 50V 22p
C9725 50V 1000p
R9728 20k
C9716 50V 22p
C9727 50V 1000p
R9729 20k
R9739 0
C9723 50V 0.1u
R9723 10
R9727 10
C9719 50V 1000p
C9740 50V 0.1u
IC9702
C0DBAZH00020
DC-DC CONVERTER
R9719 17.4k
R9718 20k
Q9703 B1ABCF000138
P12V
R9704 10k
R9709 100
DCDC_ON
Q9704 B1ABCF000138
R9702 10k
R9703 10k
IC9005
C0JBAZ000856
LEVEL CONVERTER
FP_CL
FP_CLK
FP_SIU
FP_SID
FP_SCSU
FP_CEL2
FP_CPH
R9010 EXB2HV103JV
IC9006
C0JBAZ000856
LEVEL CONVERTER
FP_CEL
FP_CBK
FP_CSL
FP_CSH
FP_CML
FP_CMH
R9012 EXB2HV103JV
①
②
P_ON/OFF
TO
D-BOARD
(4/6)
A
B
C

TH-42PM50U
D-Board (1 of 6) Schematic Diagram

5 6 7 8 9

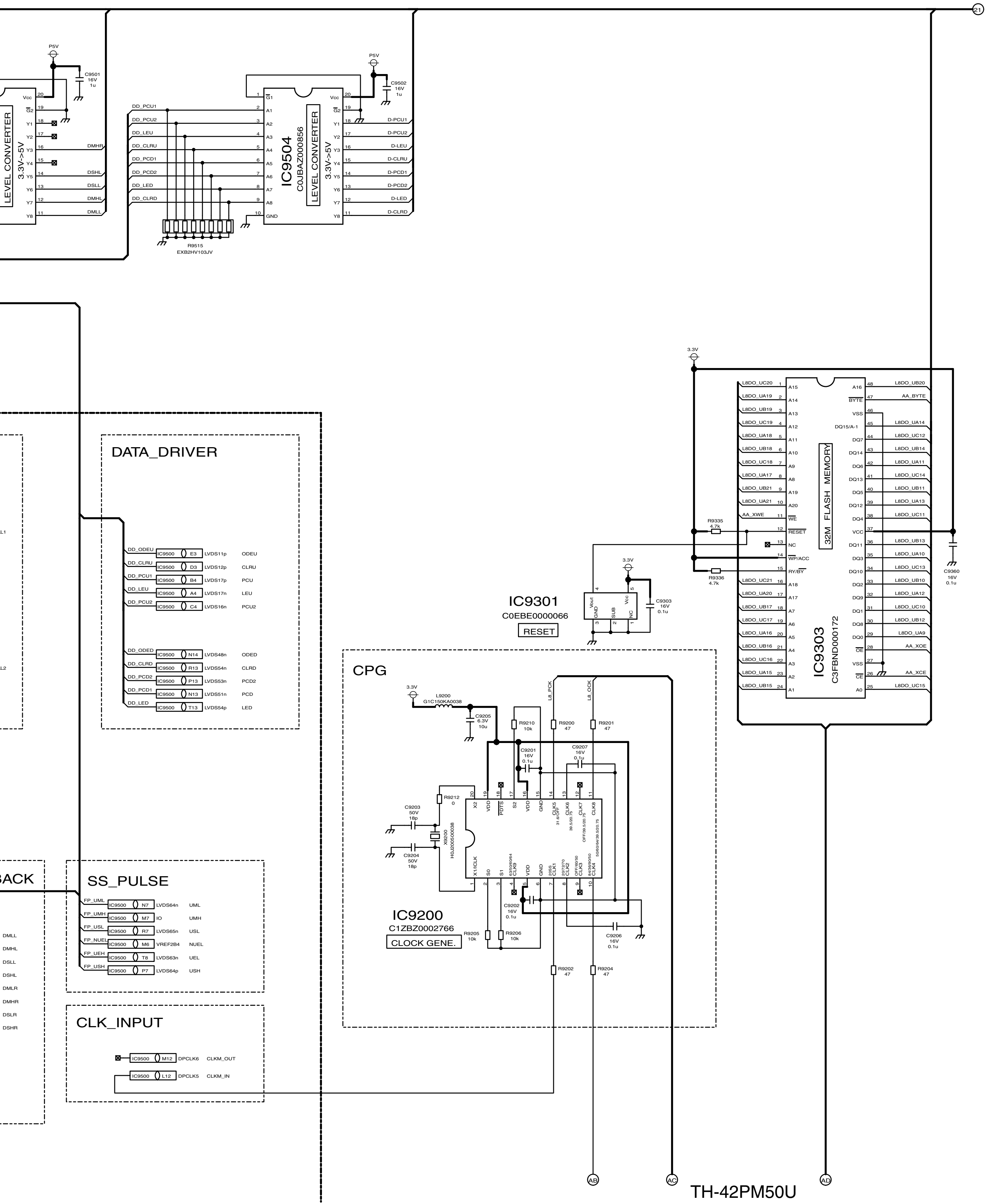
13.36. D-Board (2 of 6) Schematic Diagram

⚠ D-BOARD TZTNP010YFS (2/6)


IC9700
C0DBEJG00001
AVR 2.5V
IC9502
C0JBAZ000856
LEVEL CONVERTER
3.3V->5V
IC9503
C0JBAZ000856
LEVEL CONVERTER
3.3V->5V
FPGA
SC_PULSE
GND
VCCI
VCCINT
LVDS_INPUT
IC9500
C1ZBZ0002599
FPGA/SYNC/OSD
DISCHARGE CONTROL
TEST PIN
OTHER
DATA POWER FEEDBACK
Q9500
B1CBHD000001
TO
D-BOARD
(5/6)

TH-42PM50U D-Board (2 of 6) Schematic Diagram

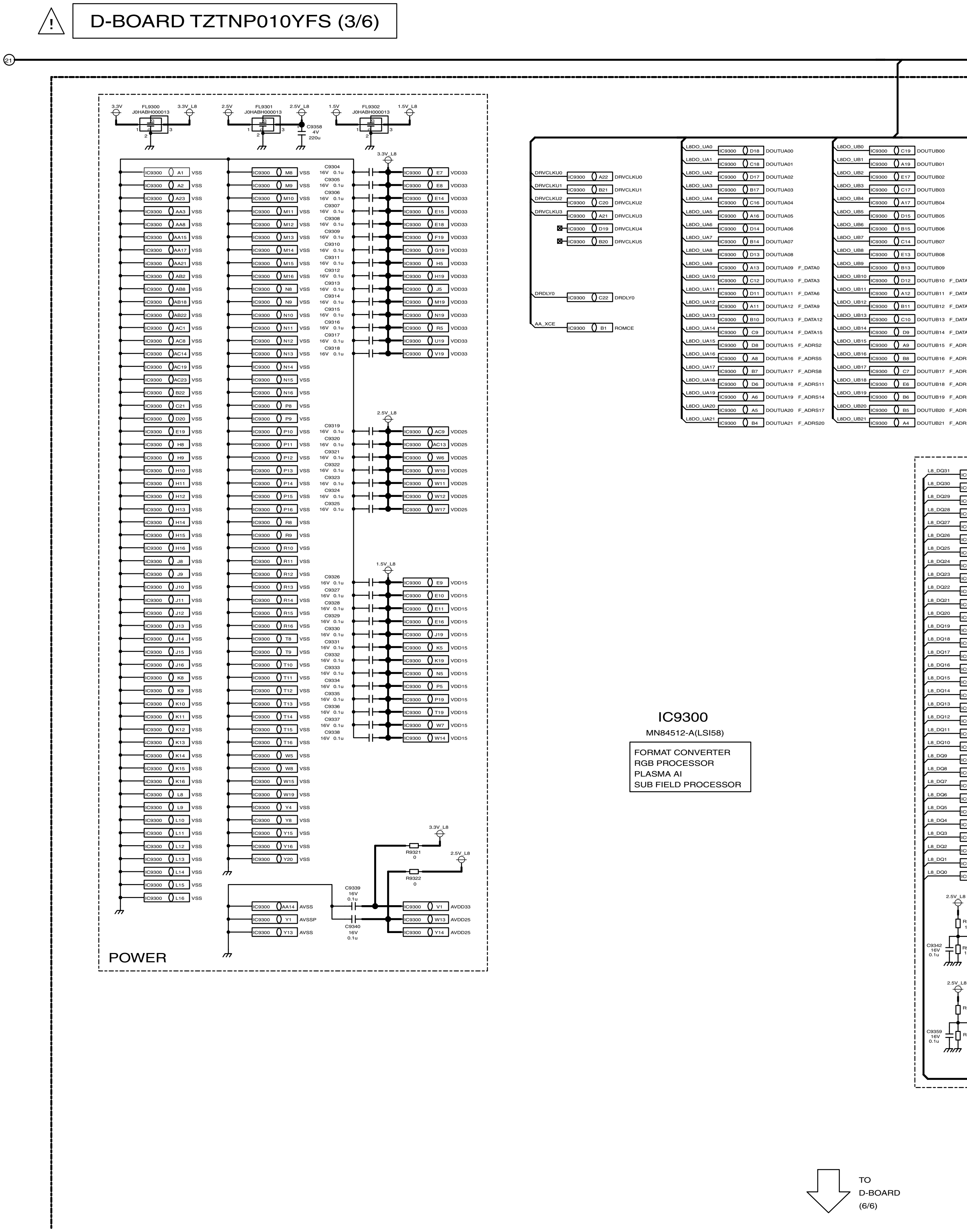
10 11 12 13 14


LEVEL CONVERTER
3.3V->5V
P5V
C9501 16V 1u
C9502 16V 1u
IC9504
C0JBAZ000856
R9515
EXB2HV103JV
DD_PCU1
DD_PCU2
DD_LEU
DD_CLRU
DD_PCD1
DD_PCD2
DD_LED
DD_CLRD
D-PCU1
D-PCU2
D-LEU
D-CLRU
D-PCD1
D-PCD2
D-LED
D-CLRD
DMHR
DSHL
DSLL
DMHL
DMLL
DATA_DRIVER
DD_ODEU
DD_CLRU
DD_PCU1
DD_LEU
DD_PCU2
DD_ODED
DD_CLRD
DD_PCD2
DD_PCD1
DD_LED
IC9500
LVDS11p ODEU
LVDS12p CLRU
LVDS17p PCU
LVDS17n LEU
LVDS16n PCU2
LVDS48n ODED
LVDS54n CLRD
LVDS53n PCD2
LVDS51n PCD
LVDS54p LED
BACK
SS_PULSE
FP_UML
FP_UMH
FP_USL
FP_NUEL
FP_UEH
FP_USH
LVDS64n UML
IO UMH
LVDS65n USL
VREF2B4 NUEL
LVDS63n UEL
LVDS64p USH
DMLL
DMHL
DSLL
DSHL
DMLR
DMHR
DSLR
DSHR
CLK_INPUT
IC9500 M12 DPCLK6 CLKM_OUT
IC9500 L12 DPCLK5 CLKM_IN
IC9301
C0EBE0000066
RESET
C9303 16V 0.1u
CPG
3.3V
L9200
G1C150KA0038
C9205 6.3V 10u
R9210 10k
R9200 47
R9201 47
C9201 16V 0.1u
C9207 16V 0.1u
L8_PCK
L8_OCK
C9203 50V 18p
C9204 50V 18p
R9212 0
X9200
H0J200500038
IC9200
C1ZBZ0002766
CLOCK GENE.
C9202 16V 0.1u
C9206 16V 0.1u
R9205 10k
R9206 10k
R9202 47
R9204 47
IC9303
C3FBND000172
32M FLASH MEMORY
R9335 4.7k
R9336 4.7k
C9360 16V 0.1u
AA_XWE
AA_BYTE
AA_XOE
AA_XCE
21
AB
AC
AD
14
15
16
17
18

TH-42PM50U

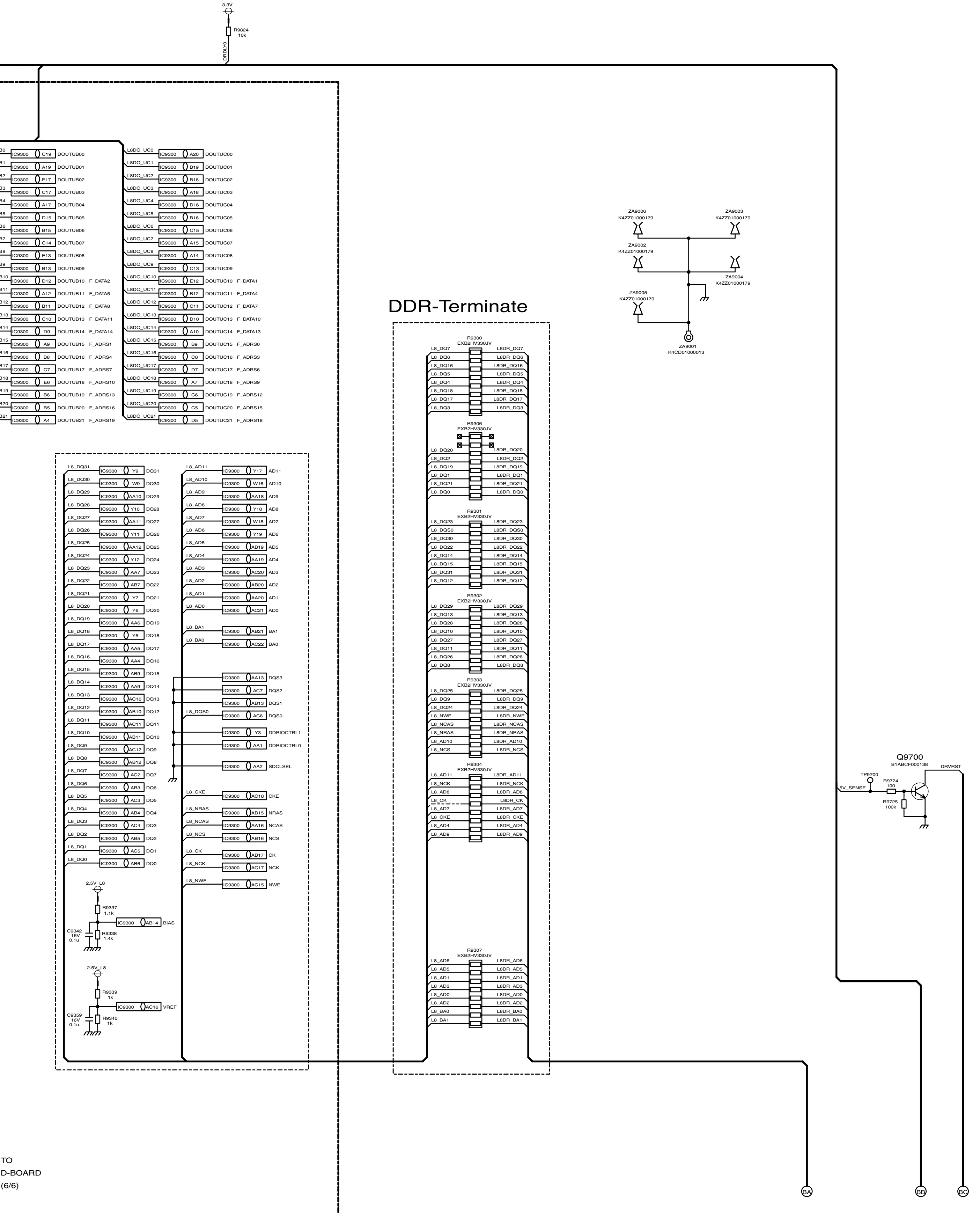
D-Board (2 of 6) Schematic Diagram

13.37. D-Board (3 of 6) Schematic Diagram


D-BOARD TZTNP010YFS (3/6)
21
FL9300 J0HABH000013
FL9301 J0HABH000013
FL9302 J0HABH000013
3.3V
3.3V_L8
2.5V
2.5V_L8
1.5V
1.5V_L8
C9358 4V 220u
VSS
VDD33
VDD25
VDD15
AVSS
AVSSP
AVDD33
AVDD25
R9321 0
R9322 0
C9339 16V 0.1u
C9340 16V 0.1u
POWER
DRVCLKU0
DRVCLKU1
DRVCLKU2
DRVCLKU3
DRVCLKU4
DRVCLKU5
DRDLY0
AA_XCE
ROMCE
L8DO_UA0
L8DO_UB0
DOUTUA00
DOUTUB00
F_DATA0
F_ADRS2
L8_DQ31
L8_DQ0
C9342 16V 0.1u
C9359 16V 0.1u
IC9300
MN84512-A(LSI58)
FORMAT CONVERTER
RGB PROCESSOR
PLASMA AI
SUB FIELD PROCESSOR
TO
D-BOARD
(6/6)

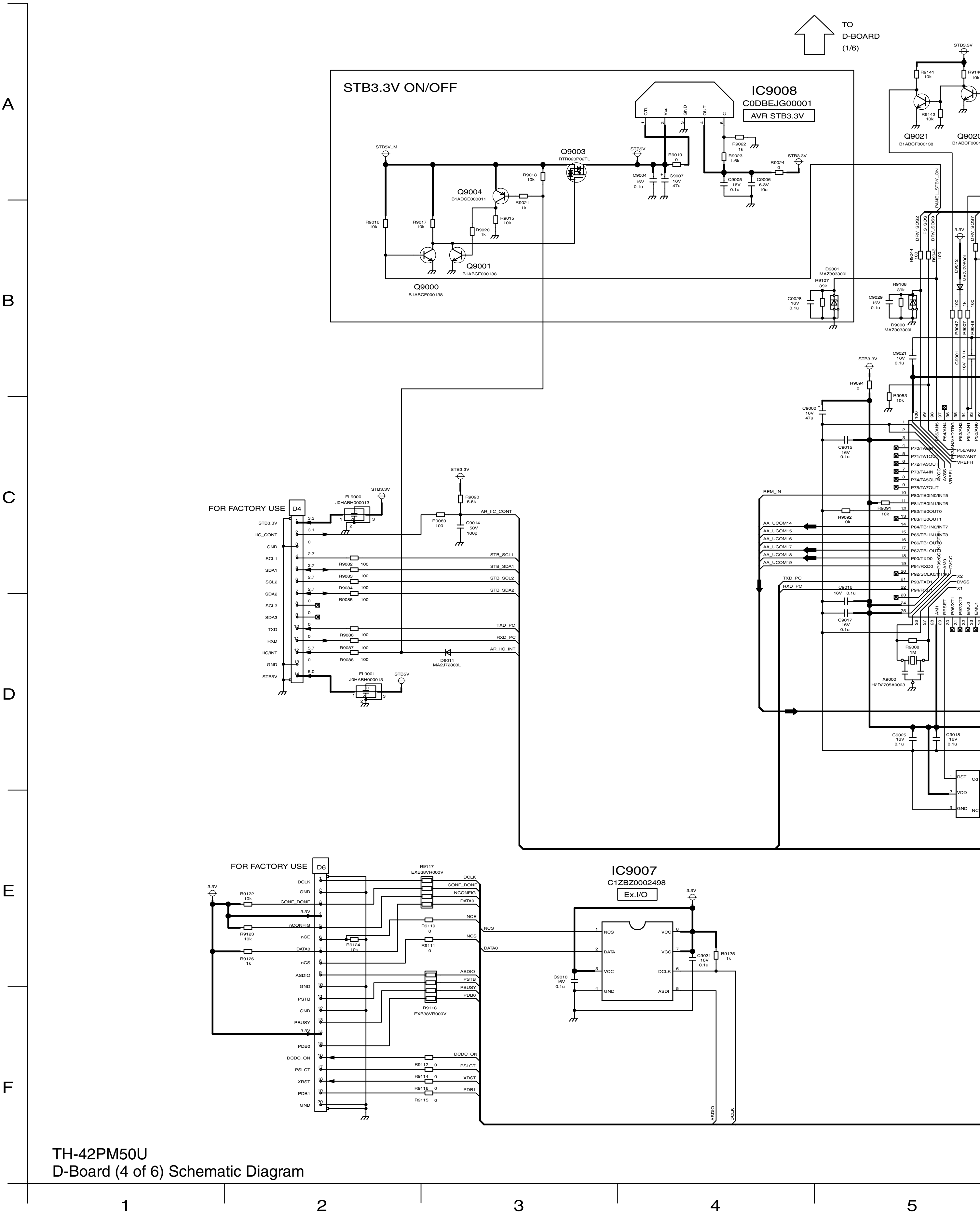
TH-42PM50U D-Board (3 of 6) Schematic Diagram

19 20 21 22 23

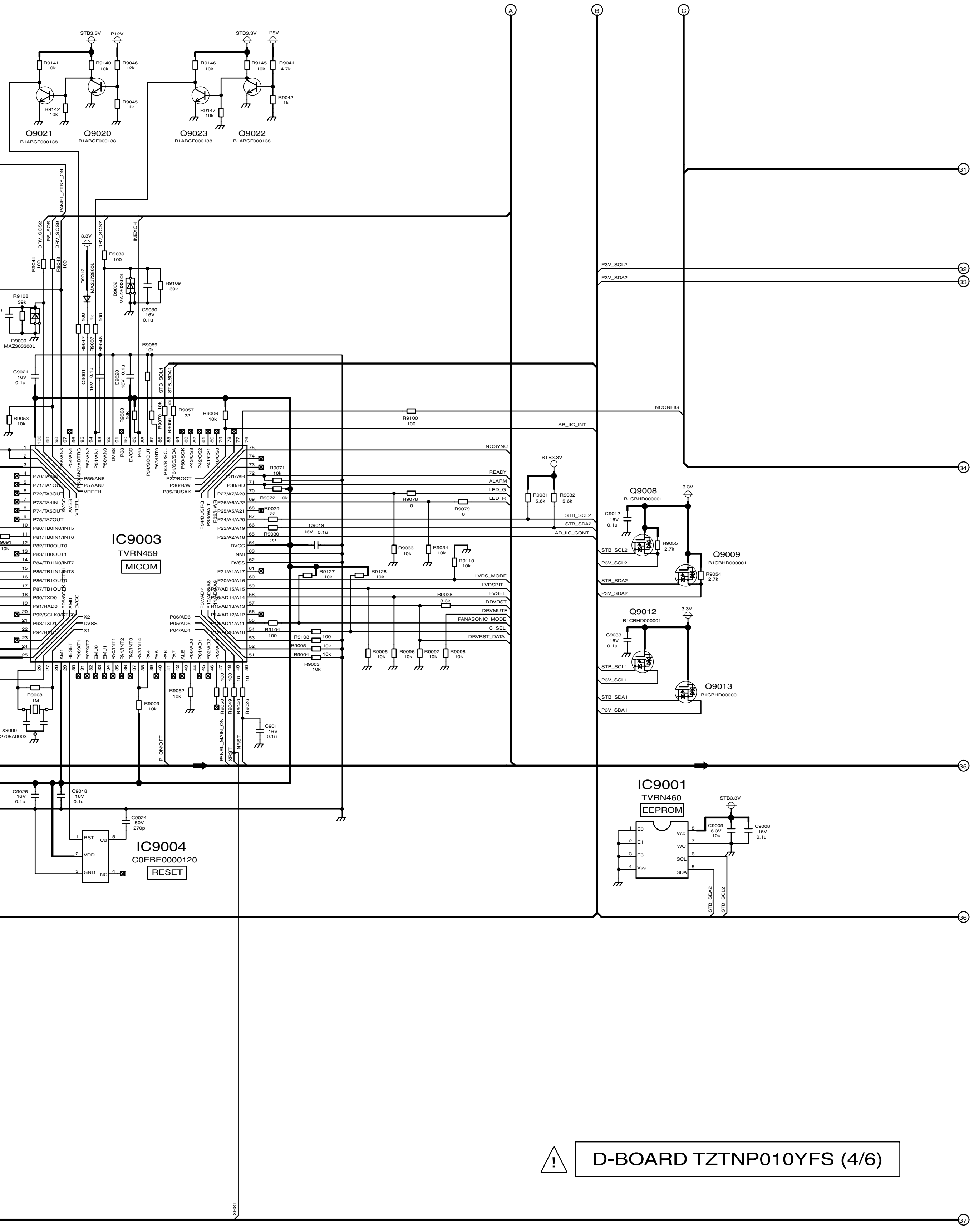

3.3V
R9824
10k
DRDLY0
DDR-Terminate
R9300
EXB2HV330JV
R9306
EXB2HV330JV
R9301
EXB2HV330JV
R9302
EXB2HV330JV
R9303
EXB2HV330JV
R9304
EXB2HV330JV
R9307
EXB2HV330JV
ZA9006
K4ZZ01000179
ZA9003
K4ZZ01000179
ZA9002
K4ZZ01000179
ZA9004
K4ZZ01000179
ZA9005
K4ZZ01000179
ZA9001
K4CD01000013
Q9700
B1ABCF000138
DRVRST
TP9700
5V_SENSE
R9724
100
R9725
100k
2.5V_L8
R9337
1.1k
R9338
1.4k
C9342
16V
0.1u
BIAS
R9339
1k
R9340
1k
C9359
16V
0.1u
VREF
SDCLSEL
DDRIOCTRL1
DDRIOCTRL0
TO
D-BOARD
(6/6)
BA
BB
BC

TH-42PM50U D-Board (3 of 6) Schematic Diagram

13.38. D-Board (4 of 6) Schematic Diagram


A
B
C
D
E
F
1
2
3
4
5
TO
D-BOARD
(1/6)
STB3.3V ON/OFF
IC9008
C0DBEJG00001
AVR STB3.3V
CTL
Vcc
GND
OUT
C
STB5V_M
STB5V
STB3.3V
Q9003
RTR020P02TL
Q9004
B1ADCE000011
Q9001
B1ABCF000138
Q9000
B1ABCF000138
R9016
10k
R9017
10k
R9018
10k
R9021
1k
R9015
10k
R9020
1k
R9019
0
R9022
1k
R9023
1.6k
R9024
0
C9004
16V
0.1u
C9007
16V
47u
C9005
16V
0.1u
C9006
6.3V
10u
Q9021
B1ABCF000138
Q9020
R9141
10k
R9142
10k
PANEL_STBY_ON
DRV_SOS2
PS_SOS
DRV_SOS9
DRV_SOS7
D9001
MAZ303300L
R9107
39k
C9028
16V
0.1u
R9108
39k
C9029
16V
0.1u
D9000
MAZ303300L
D9012
MA2J72800L
C9021
16V
0.1u
C9001
16V
0.1u
R9094
0
R9053
10k
C9000
16V
47u
C9015
16V
0.1u
REM_IN
R9092
10k
R9091
10k
AA_UCOM14
AA_UCOM15
AA_UCOM16
AA_UCOM17
AA_UCOM18
AA_UCOM19
TXD_PC
RXD_PC
C9016
16V 0.1u
C9017
16V
0.1u
R9008
1M
X9000
H2D2705A0003
C9025
16V
0.1u
C9018
16V
0.1u
P70/TA0IN
P71/TA1OUT
P72/TA3OUT
P73/TA4IN
P74/TA5OUT
P75/TA7OUT
P80/TB0IN0/INT5
P81/TB0IN1/INT6
P82/TB0OUT0
P83/TB0OUT1
P84/TB1IN0/INT7
P85/TB1IN1/INT8
P86/TB1OUT0
P87/TB1OUT1
P90/TXD0
P91/RXD0
P92/SCLK0/CTS0
P93/TXD1
P94/RXD1
P56/AN6
P57/AN7
VREFH
AVCC
AVSS
VREFL
X2
DVSS
X1
AM1
RESET
P96/XT1
P97/XT2
EMU0
EMU1
RST
VDD
GND
NC
FOR FACTORY USE
D4
STB3.3V
IIC_CONT
GND
SCL1
SDA1
SCL2
SDA2
SCL3
SDA3
TXD
RXD
IIC/INT
GND
STB5V
FL9000
J0HABH000013
FL9001
J0HABH000013
R9090
5.6k
R9089
100
C9014
50V
100p
AR_IIC_CONT
R9082
100
R9083
100
R9084
100
R9085
100
R9086
100
R9087
100
R9088
100
STB_SCL1
STB_SDA1
STB_SCL2
STB_SDA2
TXD_PC
RXD_PC
AR_IIC_INT
D9011
MA2J72800L
FOR FACTORY USE
D6
DCLK
GND
CONF_DONE
3.3V
nCONFIG
nCE
DATA0
nCS
ASDIO
GND
PSTB
GND
PBUSY
3.3V
PDB0
DCDC_ON
PSLCT
XRST
PDB1
GND
R9122
10k
R9123
10k
R9126
1k
R9124
10k
R9117
EXB38VR000V
R9118
EXB38VR000V
R9119
0
R9111
0
NCONFIG
NCE
NCS
DATA0
ASDIO
PSTB
PBUSY
PDB0
DCDC_ON
PSLCT
XRST
PDB1
R9112
0
R9114
0
R9116
0
R9115
0
IC9007
C1ZBZ0002498
Ex.I/O
NCS
DATA
VCC
GND
VCC
VCC
DCLK
ASDI
C9010
16V
0.1u
C9031
16V
0.1u
R9125
1k
ASDIO
DCLK

TH-42PM50U
D-Board (4 of 6) Schematic Diagram



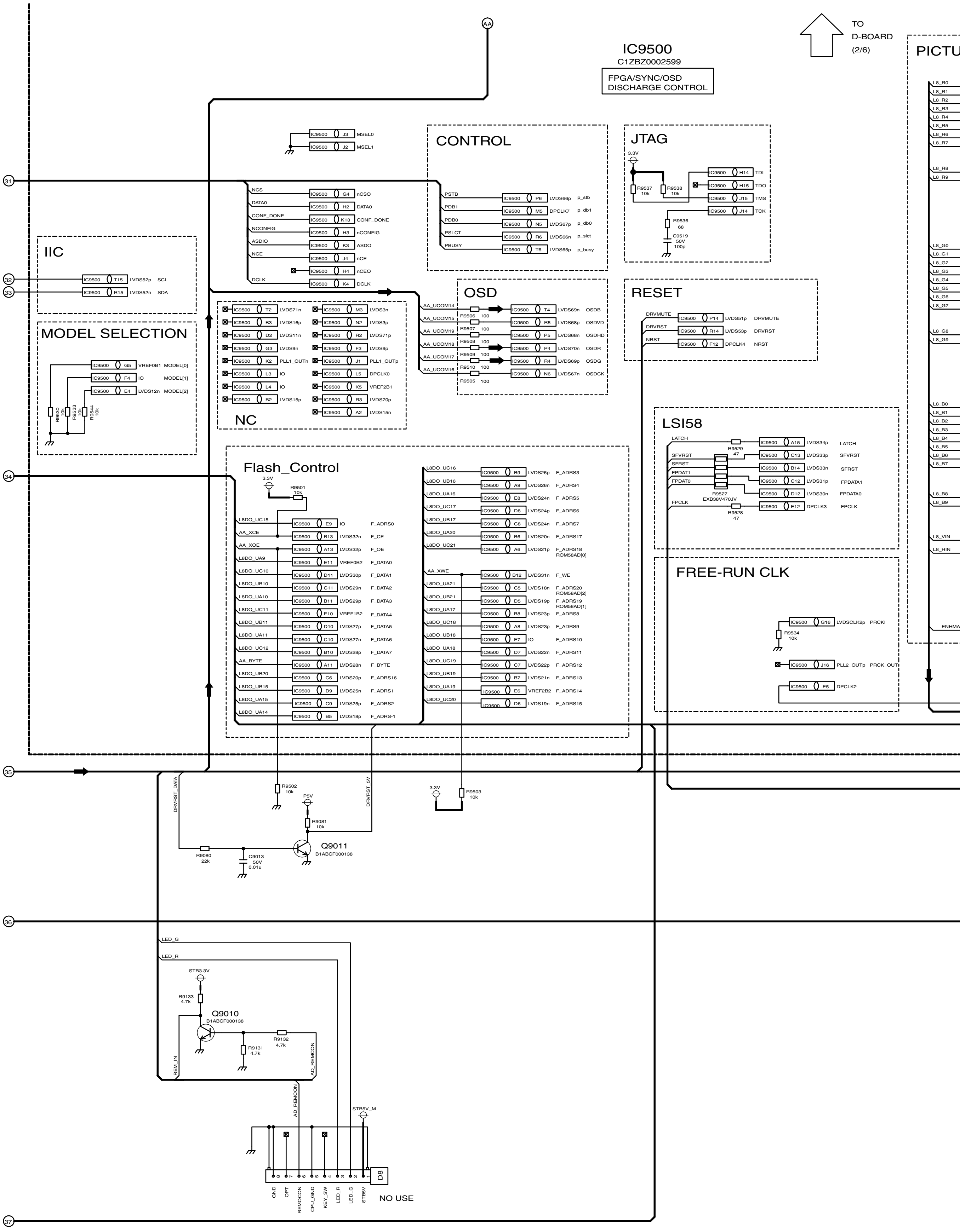
A
B
C
STB3.3V
P12V
P5V
R9141 10k
R9140 10k
R9046 12k
R9142 10k
R9045 1k
Q9021 B1ABCF000138
Q9020 B1ABCF000138
R9146 10k
R9145 10k
R9041 4.7k
R9147 10k
R9042 1k
Q9023 B1ABCF000138
Q9022 B1ABCF000138
PANEL_STBY_ON
DRV_SOS2
PS_SOS
DRV_SOS9
DRV_SOS7
INEXCH
D9012 MA3J7280L
R9039 100
D9002 MAZ30330L
R9109 39k
C9030 16V 0.1u
R9108 39k
D9000 MAZ30330L
R9069 10k
C9021 16V 0.1u
C9001 16V 0.1u
C9020 16V 0.1u
STB_SCL1
STB_SDA1
R9057 22
R9006 10k
R9053 10k
R9068 10k
R9100 100
NCONFIG
AR_IIC_INT
NOSYNC
READY
ALARM
LED_G
LED_R
STB_SCL2
STB_SDA2
AR_IIC_CONT
P3V_SCL2
P3V_SDA2
IC9003
TVRN459
MICOM
R9071 10k
R9072 10k
R9029 22
R9030 22
C9019 16V 0.1u
R9078 0
R9079 0
R9031 5.6k
R9032 5.6k
R9033 10k
R9034 10k
R9110 10k
R9127 10k
R9128 10k
LVDS_MODE
LVDSBIT
FVSEL
DRVRST
DRVMUTE
PANASONIC_MODE
C_SEL
DRVRST_DATA
R9028 3.3k
R9104 100
R9103 100
R9005 10k
R9004 10k
R9003 10k
R9095 10k
R9096 10k
R9097 10k
R9098 10k
R9008 1M
X9000
R9052 10k
R9009 10k
C9011 16V 0.1u
P_ON/OFF
PANEL_MAIN_ON
XRST
NRST
C9025 16V 0.1u
C9018 16V 0.1u
C9024 50V 270p
IC9004
C0EBE0000120
RESET
RST
VDD
GND
Cd
NC
Q9008 B1CBHD000001
Q9009 B1CBHD000001
Q9012 B1CBHD000001
Q9013 B1CBHD000001
C9012 16V 0.1u
C9033 16V 0.1u
R9055 2.7k
R9054 2.7k
3.3V
STB_SCL1
P3V_SCL1
STB_SDA1
P3V_SDA1
IC9001
TVRN460
EEPROM
E0
E1
E2
Vss
Vcc
WC
SCL
SDA
C9009 6.3V 10u
C9008 16V 0.1u
31
32
33
34
35
36
37

D-BOARD TZTNP010YFS (4/6)

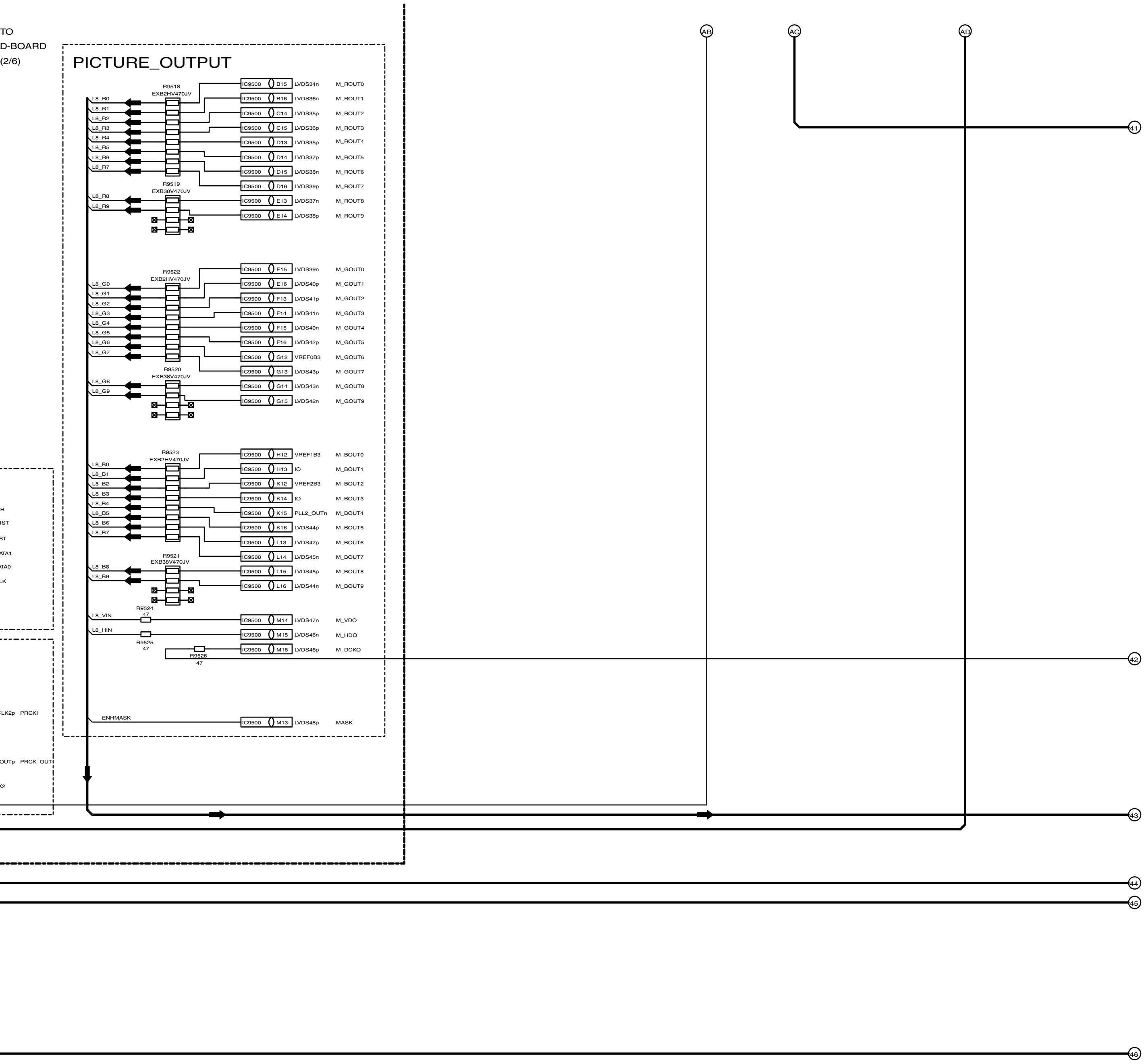
TH-42PM50U
D-Board (4 of 6) Schematic Diagram

5	6	7	8	9

13.39. D-Board (5 of 6) Schematic Diagram


AA
IC9500
C1ZBZ0002599
FPGA/SYNC/OSD
DISCHARGE CONTROL
TO
D-BOARD
(2/6)
PICTU
CONTROL
JTAG
IIC
MODEL SELECTION
NC
OSD
RESET
LSI58
Flash_Control
FREE-RUN CLK
Q9011
B1ABCF000138
Q9010
B1ABCF000138
D8
NO USE
GND
OPT
REMOCON
CPU_GND
KEY_SW
LED_R
LED_G
STB5V
STB5V_M
STB3.3V
LED_G
LED_R
REM_IN
AD_REMCON
DRVRST_DATA
DRVRST_5V
P5V
3.3V
31
32
33
34
35
36
37

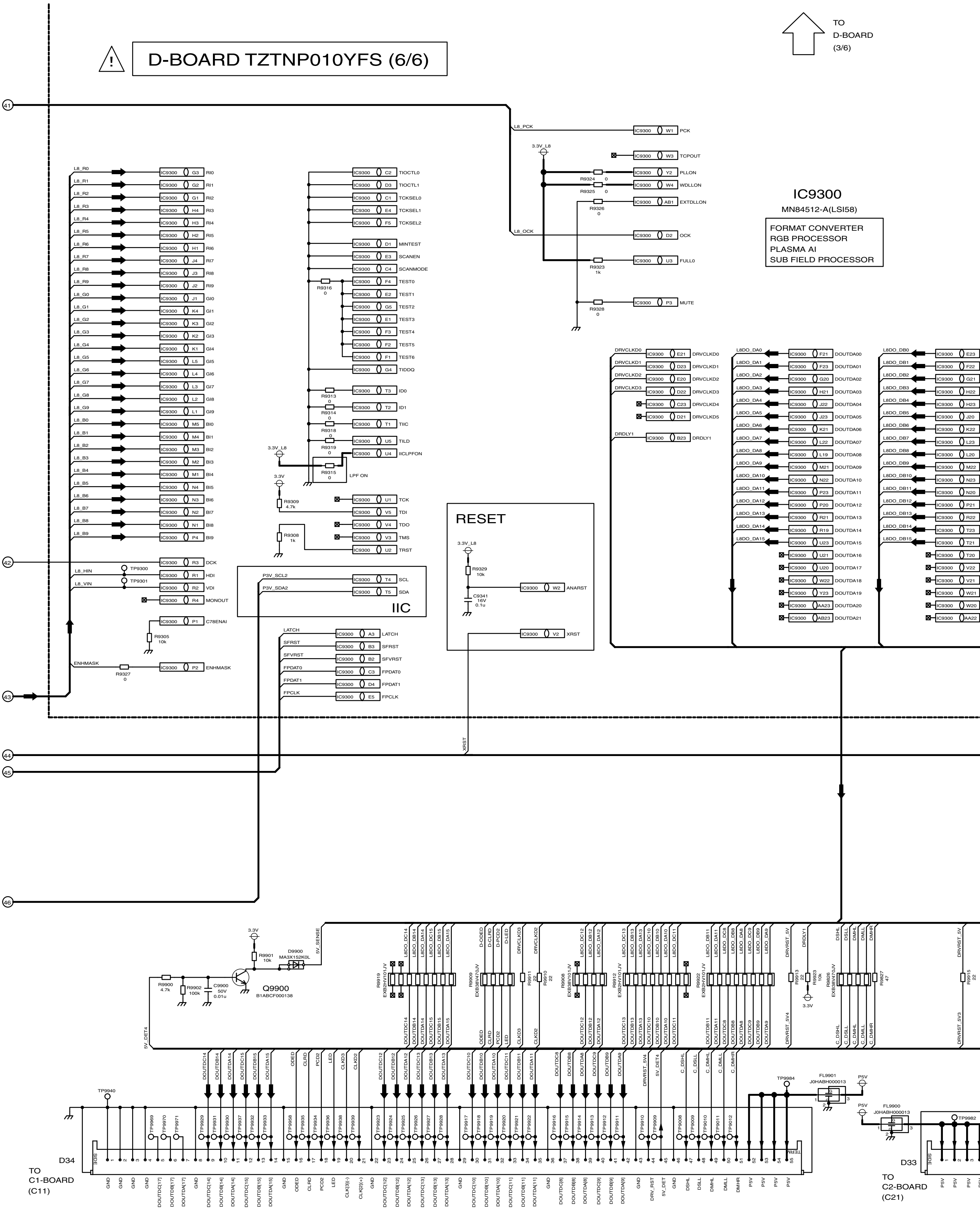
TH-42PM50U
D-Board (5 of 6) Schematic Diagram


TO
D-BOARD
(2/6)
PICTURE_OUTPUT
R9518
EXB2HV470JV
L8_R0
L8_R1
L8_R2
L8_R3
L8_R4
L8_R5
L8_R6
L8_R7
IC9500 B15 LVDS34n M_ROUT0
IC9500 B16 LVDS36n M_ROUT1
IC9500 C14 LVDS35p M_ROUT2
IC9500 C15 LVDS36p M_ROUT3
IC9500 D13 LVDS35p M_ROUT4
IC9500 D14 LVDS37p M_ROUT5
IC9500 D15 LVDS38n M_ROUT6
IC9500 D16 LVDS39p M_ROUT7
R9519
EXB38V470JV
L8_R8
L8_R9
IC9500 E13 LVDS37n M_ROUT8
IC9500 E14 LVDS38p M_ROUT9
R9522
EXB2HV470JV
L8_G0
L8_G1
L8_G2
L8_G3
L8_G4
L8_G5
L8_G6
L8_G7
IC9500 E15 LVDS39n M_GOUT0
IC9500 E16 LVDS40p M_GOUT1
IC9500 F13 LVDS41p M_GOUT2
IC9500 F14 LVDS41n M_GOUT3
IC9500 F15 LVDS40n M_GOUT4
IC9500 F16 LVDS42p M_GOUT5
IC9500 G12 VREF0B3 M_GOUT6
IC9500 G13 LVDS43p M_GOUT7
R9520
EXB38V470JV
L8_G8
L8_G9
IC9500 G14 LVDS43n M_GOUT8
IC9500 G15 LVDS42n M_GOUT9
R9523
EXB2HV470JV
L8_B0
L8_B1
L8_B2
L8_B3
L8_B4
L8_B5
L8_B6
L8_B7
IC9500 H12 VREF1B3 M_BOUT0
IC9500 H13 IO M_BOUT1
IC9500 K12 VREF2B3 M_BOUT2
IC9500 K14 IO M_BOUT3
IC9500 K15 PLL2_OUTn M_BOUT4
IC9500 K16 LVDS44p M_BOUT5
IC9500 L13 LVDS47p M_BOUT6
IC9500 L14 LVDS45n M_BOUT7
R9521
EXB38V470JV
L8_B8
L8_B9
IC9500 L15 LVDS45p M_BOUT8
IC9500 L16 LVDS44n M_BOUT9
L8_VIN
R9524
47
IC9500 M14 LVDS47n M_VDO
L8_HIN
R9525
47
IC9500 M15 LVDS46n M_HDO
R9526
47
IC9500 M16 LVDS46p M_DCKO
ENHMASK
IC9500 M13 LVDS48p MASK
H
RST
ST
ATA1
ATA0
LK
CLK2p PRCKI
OUTp PRCK_OUT
K2
AB
AC
AD
41
42
43
44
45
46

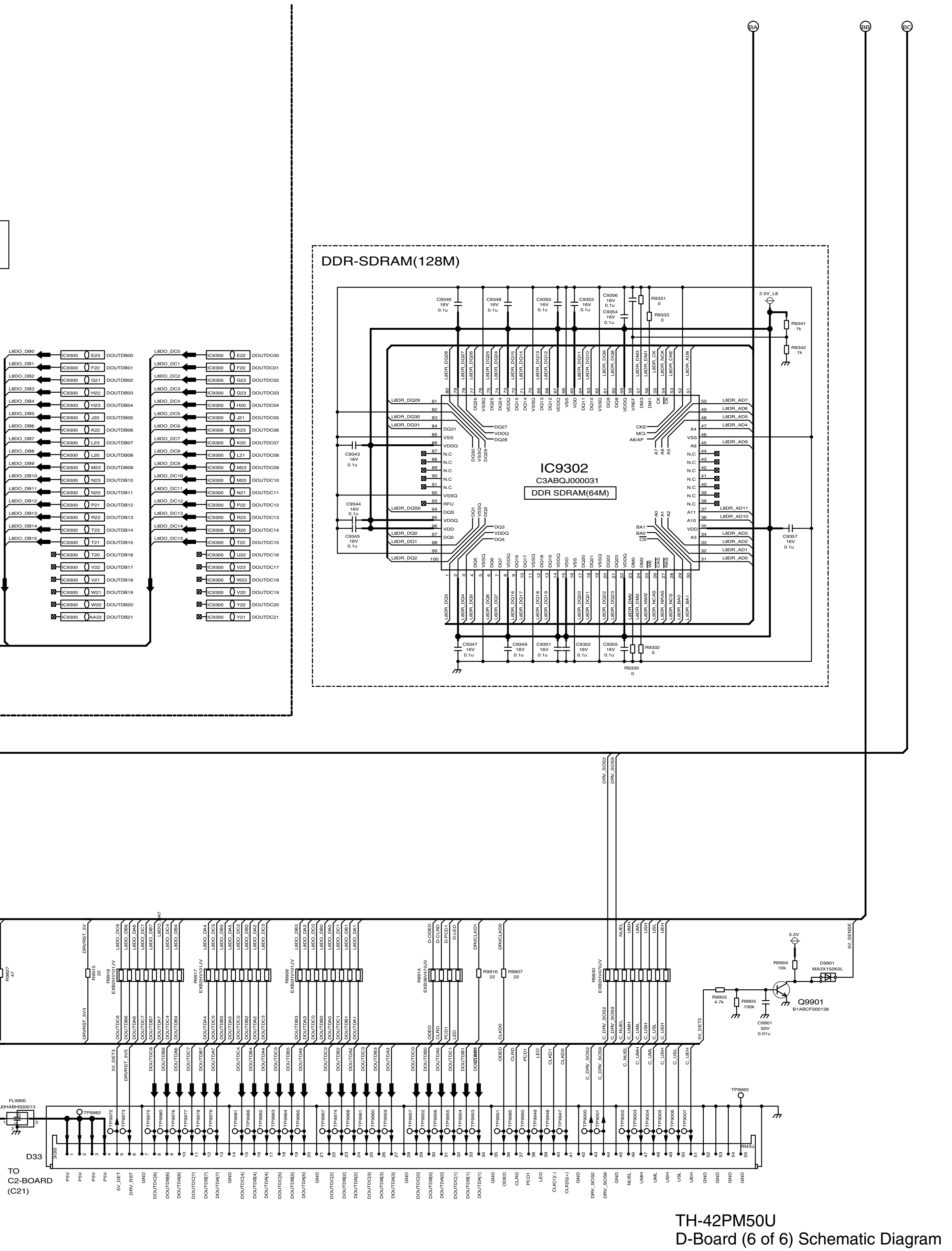
⚠ D-BOARD TZTNP010YFS (5/6)

TH-42PM50U
D-Board (5 of 6) Schematic Diagram

13.40. D-Board (6 of 6) Schematic Diagram

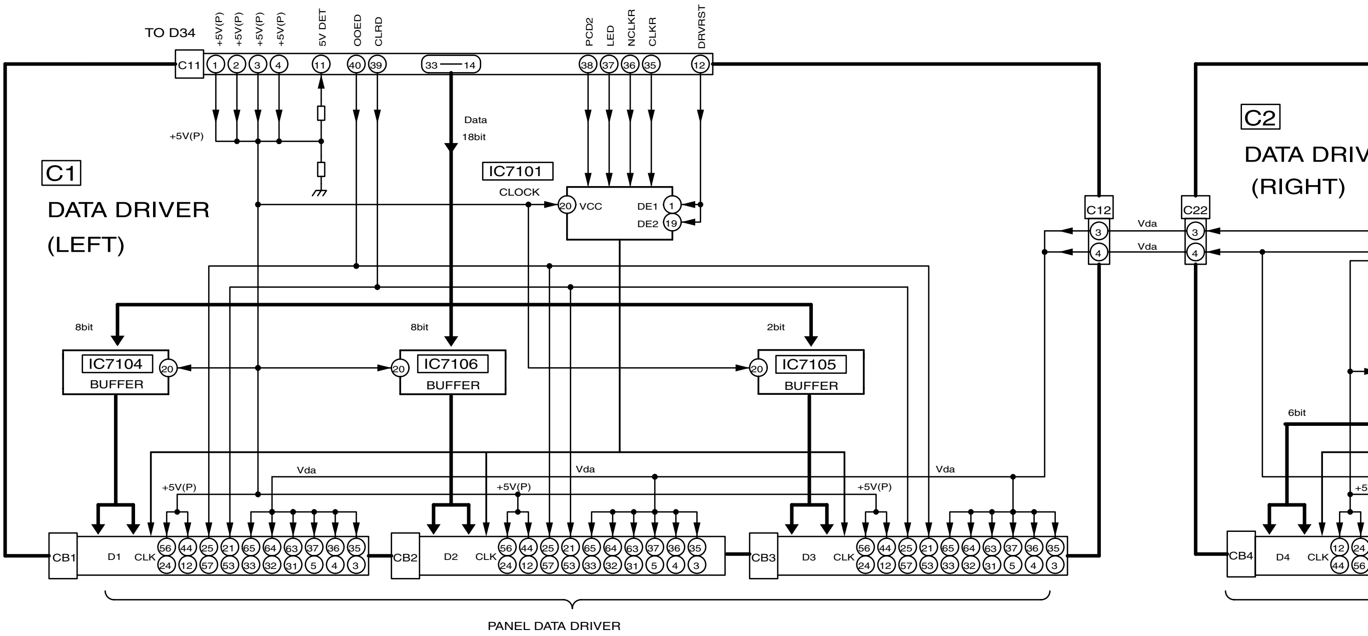

D-BOARD TZTNP010YFS (6/6)
TO
D-BOARD
(3/6)
IC9300
MN84512-A(LSI58)
FORMAT CONVERTER
RGB PROCESSOR
PLASMA AI
SUB FIELD PROCESSOR
RESET
IIC
L8_PCK
3.3V_L8
L8_OCK
PCK
TCPOUT
PLLON
WDLLON
EXTDLLON
OCK
FULL0
MUTE
R9324
R9325
R9326
R9323
R9328
TIOCTL0
TIOCTL1
TCKSEL0
TCKSEL1
TCKSEL2
MINTEST
SCANEN
SCANMODE
TEST0
TEST1
TEST2
TEST3
TEST4
TEST5
TEST6
TIDDQ
ID0
ID1
TIIC
TILD
IICLPFON
LPF ON
TCK
TDI
TDO
TMS
TRST
R9316
R9313
R9314
R9318
R9319
R9315
R9309
4.7k
R9308
1k
DCK
HDI
VDI
MONOUT
C78ENAI
ENHMASK
L8_HIN
L8_VIN
TP9300
TP9301
R9305
10k
R9327
P3V_SCL2
P3V_SDA2
SCL
SDA
LATCH
SFRST
SFVRST
FPDAT0
FPDAT1
FPCLK
R9329
10k
C9341
16V
0.1u
ANARST
XRST
DRVCLKD0
DRVCLKD1
DRVCLKD2
DRVCLKD3
DRVCLKD4
DRVCLKD5
DRDLY1
DOUTDA00 … DOUTDA21
DOUTDB00 … DOUTDB21
L8DO_DA0 … L8DO_DA15
L8DO_DB0 … L8DO_DB15
5V_SENSE
R9901
10k
D9900
MA3X152K0L
Q9900
B1ABCF000138
R9900
4.7k
R9902
100k
C9900
50V
0.01u
5V_DET4
R9919
R9909
R9912
R9922
R9926
R9911
R9910
R9913
R9923
R9927
R9915
EXB38V101JV
EXB38V470JV
TP9940
TP9984
FL9901
J0HABH000013
FL9900
J0HABH000013
P5V
TP9982
D34
TO
C1-BOARD
(C11)
D33
TO
C2-BOARD
(C21)
GND
ODED
CLRD
PCD2
LED
CLKD3
CLKD2
DRV_RST
5V_DET
DSHL
DSLL
DMHL
DMLL
DMHR
TERM
SIDE

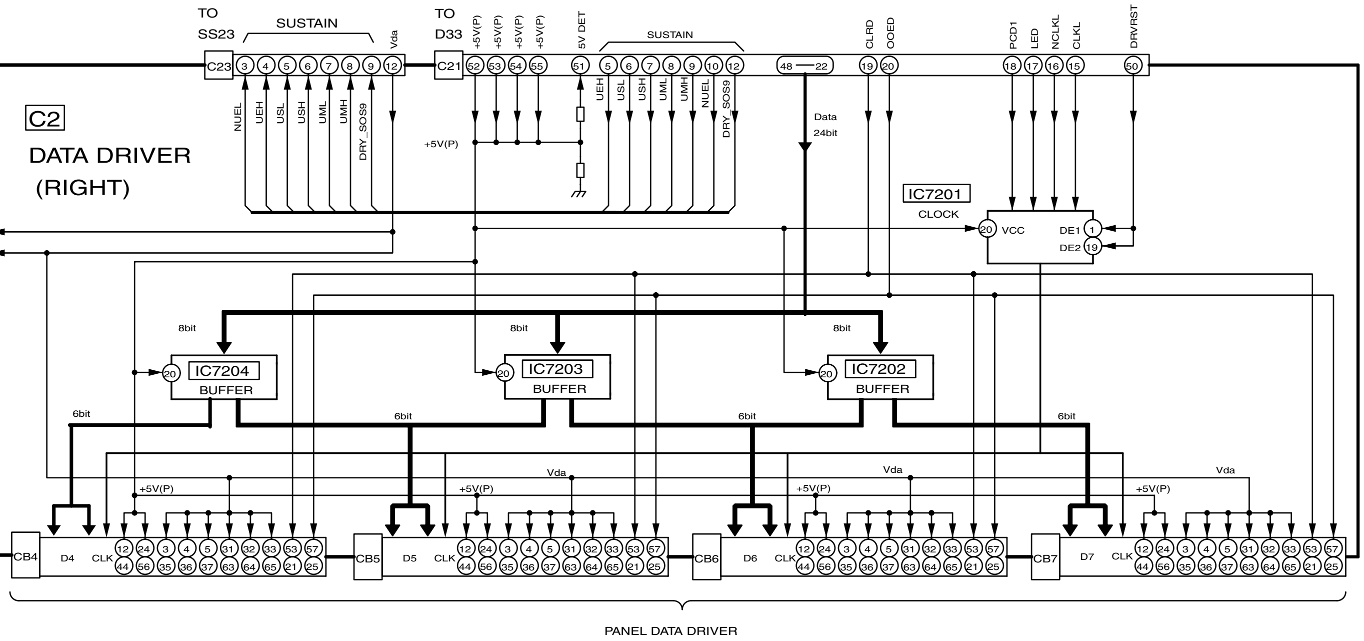
TH-42PM50U
D-Board (6 of 6) Schematic Diagram


DDR-SDRAM(128M)
IC9302
C3ABQJ000031
DDR SDRAM(64M)
BA
BB
BC
2.5V_L8
3.3V
Q9901
B1ABCF000138
D9901
MA3X152K0L
FL9900
J0HABH000013
D33
TO
C2-BOARD
(C21)
5V_SENSE
23
24
25
26
27

TH-42PM50U
D-Board (6 of 6) Schematic Diagram

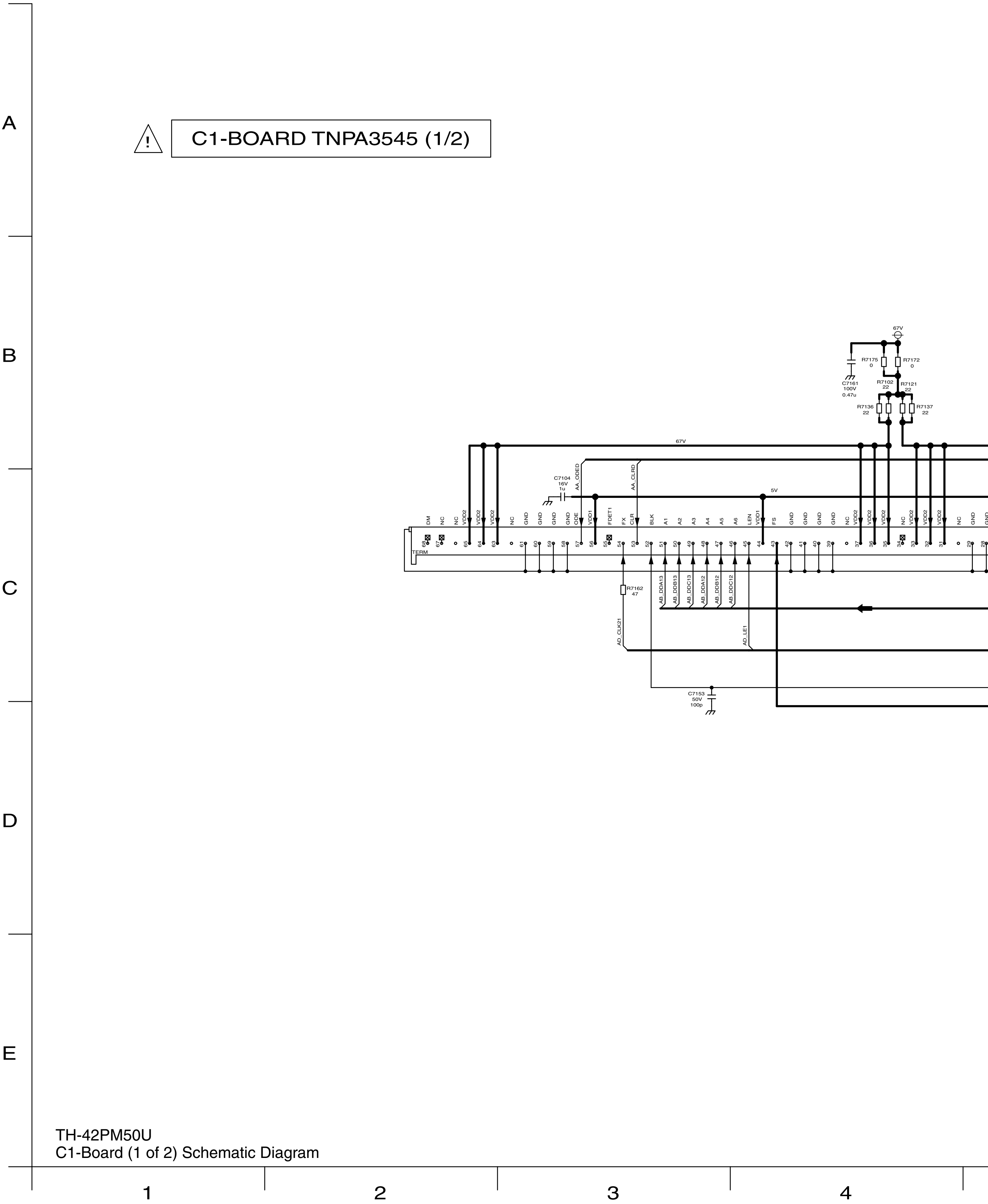
13.41. C1 and C2-Board Block Diagram


TO D34
C11
+5V(P)
+5V(P)
+5V(P)
+5V(P)
5V DET
OOED
CLRD
PCD2
LED
NCLKR
CLKR
DRVRST
Data
18bit
+5V(P)
C1
DATA DRIVER
(LEFT)
IC7101
CLOCK
VCC
DE1
DE2
8bit
8bit
2bit
IC7104
BUFFER
IC7106
BUFFER
IC7105
BUFFER
Vda
Vda
Vda
+5V(P)
+5V(P)
+5V(P)
CB1
D1
CLK
CB2
D2
CLK
CB3
D3
CLK
PANEL DATA DRIVER
C12
C22
Vda
Vda
C2
DATA DRIV
(RIGHT)
6bit
CB4
D4
CLK

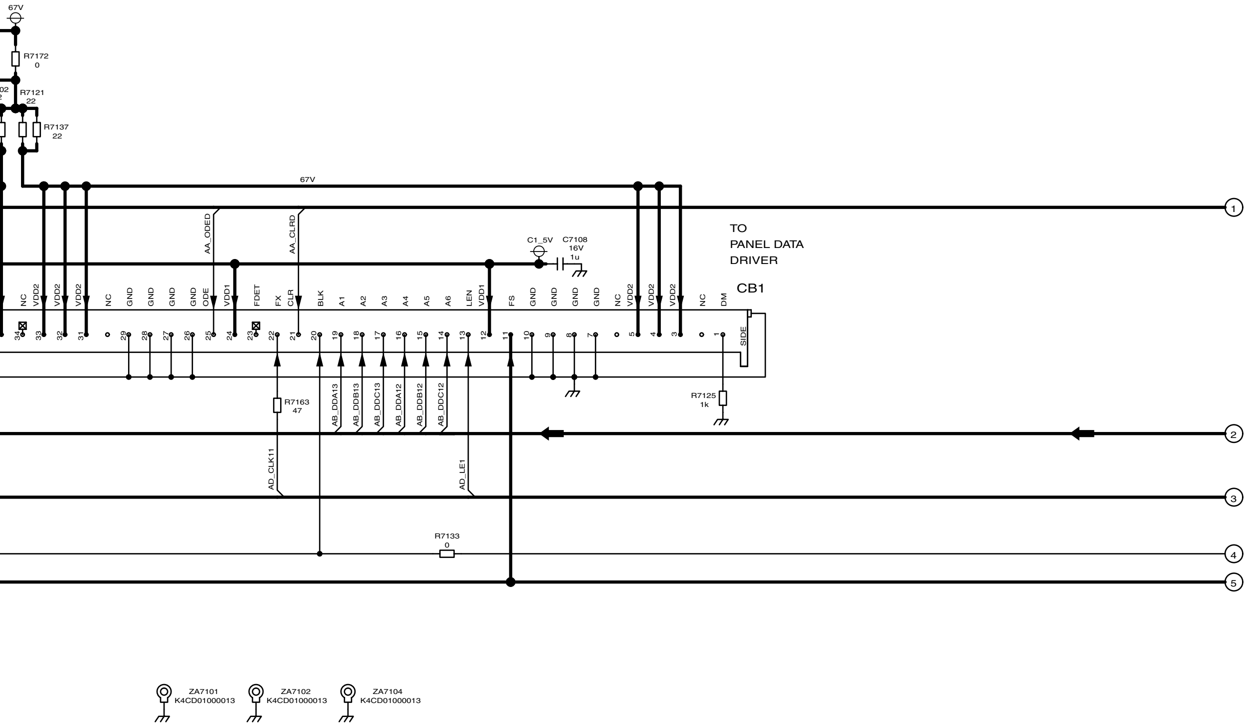

TO
SS23
SUSTAIN
Vda
C23
3 4 5 6 7 8 9 12
NUEL
UEH
USL
USH
UML
UMH
DRY_SOS9
TO
D33
+5V(P)
+5V(P)
+5V(P)
+5V(P)
5V DET
SUSTAIN
C21
52 53 54 55 51 5 6 7 8 9 10 12
UEH
USL
USH
UML
UMH
NUEL
DRY_SOS9
+5V(P)
48 — 22
Data
24bit
CLRD
OOED
19 20
PCD1
LED
NCLKL
CLKL
18 17 16 15
DRVRST
50
C2
DATA DRIVER
(RIGHT)
IC7201
CLOCK
20 VCC
DE1 1
DE2 19
8bit
8bit
8bit
IC7204
BUFFER
IC7203
BUFFER
IC7202
BUFFER
20
6bit
6bit
6bit
6bit
Vda
Vda
Vda
+5V(P)
+5V(P)
+5V(P)
+5V(P)
CB4
D4
CLK
CB5
D5
CLK
CB6
D6
CLK
CB7
D7
CLK
12 24 3 4 5 31 32 33 53 57
44 56 35 36 37 63 64 65 21 25
PANEL DATA DRIVER

TH-42PM50U
C1 and C2-Board Block Diagram

13.42. C1-Board (1 of 2) Schematic Diagram

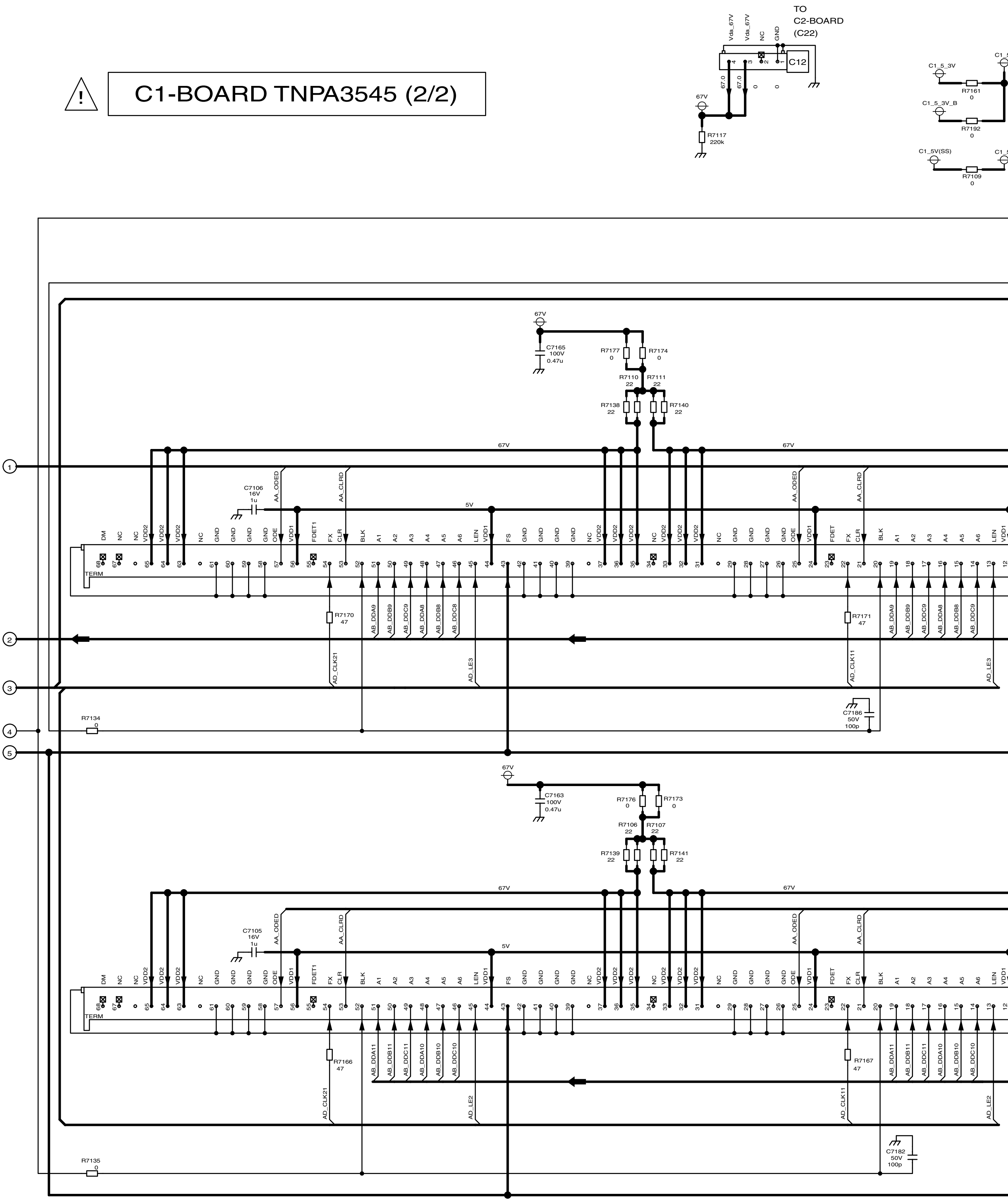

A
B
C
D
E
1
2
3
4
C1-BOARD TNPA3545 (1/2)
67V
R7175
0
R7172
0
C7161
100V
0.47u
R7102
22
R7121
22
R7136
22
R7137
22
67V
AA_ODED
AA_CLRD
C7104
16V
1u
5V
DM
NC
NC
VDD2
VDD2
VDD2
NC
GND
GND
GND
GND
ODE
VDD1
FDET1
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
VDD1
FS
GND
GND
GND
GND
NC
VDD2
VDD2
VDD2
NC
VDD2
VDD2
VDD2
NC
GND
GND
68
67
65
64
63
61
60
59
58
57
56
55
54
53
52
51
50
49
48
47
46
45
44
43
42
41
40
39
37
36
35
34
33
32
31
29
28
TERM
R7162
47
AB_DDA13
AB_DDB13
AB_DDC13
AB_DDA12
AB_DDB12
AB_DDC12
AD_CLK21
AD_LE1
C7153
50V
100p

TH-42PM50U
C1-Board (1 of 2) Schematic Diagram


67V
R7172
0
R7121
22
R7137
22
67V
TO
PANEL DATA
DRIVER
CB1
C1_5V
C7108
16V
1u
AA_ODED
AA_CLRD
NC
VDD2
VDD2
VDD2
NC
GND
GND
GND
GND
ODE
VDD1
FDET
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
VDD1
FS
GND
GND
GND
GND
NC
VDD2
VDD2
VDD2
NC
DM
SIDE
34
33
32
31
29
28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
5
4
3
1
R7163
47
AB_DDA13
AB_DDB13
AB_DDC13
AB_DDA12
AB_DDB12
AB_DDC12
R7125
1k
AD_CLK11
AD_LE1
R7133
0
①
②
③
④
⑤
ZA7101
K4CD01000013
ZA7102
K4CD01000013
ZA7104
K4CD01000013

TH-42PM50U
C1-Board (1 of 2) Schematic Diagram

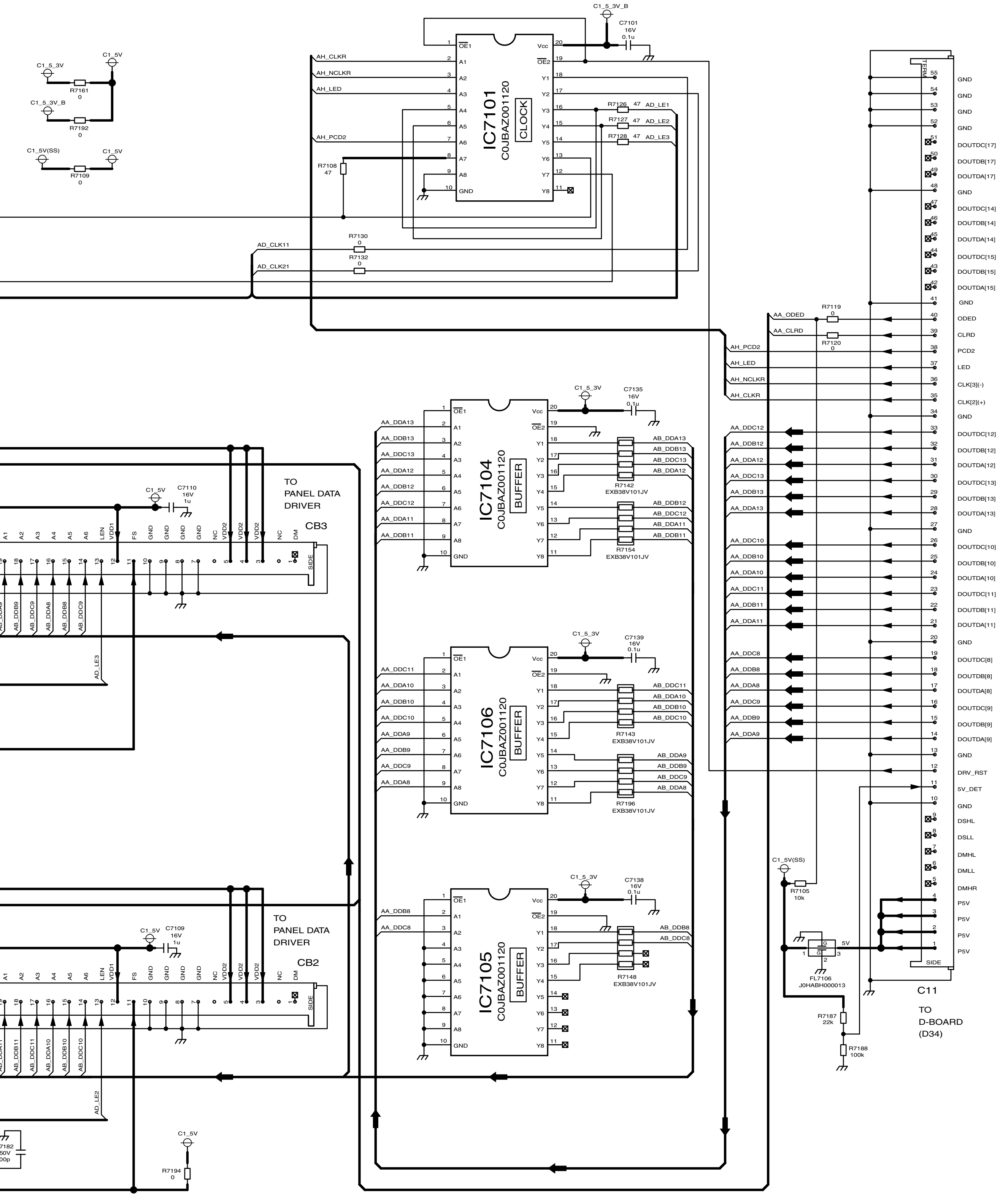
13.43. C1-Board (2 of 2) Schematic Diagram



C1-BOARD TNPA3545 (2/2)
TO
C2-BOARD
(C22)
C12
Vda_67V
Vda_67V
NC
GND
67.0
67.0
0
0
67V
R7117
220k
C1_5_3V
R7161
0
C1_5_3V_B
R7192
0
C1_5V(SS)
R7109
0
67V
C7165
100V
0.47u
R7177
0
R7174
0
R7110
22
R7111
22
R7138
22
R7140
22
67V
67V
C7106
16V
1u
AA_ODED
AA_CLRD
5V
AA_ODED
AA_CLRD
DM
NC
NC
VDD2
VDD2
VDD2
NC
GND
GND
GND
GND
ODE
VDD1
FDET1
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
VDD1
FS
GND
GND
GND
GND
NC
VDD2
VDD2
VDD2
NC
VDD2
VDD2
VDD2
NC
GND
GND
GND
GND
ODE
VDD1
FDET
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
VDD1
TERM
R7170
47
AB_DDA9
AB_DDB9
AB_DDC9
AB_DDA8
AB_DDB8
AB_DDC8
AD_CLK21
AD_LE3
R7171
47
AB_DDA9
AB_DDB9
AB_DDC9
AB_DDA8
AB_DDB8
AB_DDC9
AD_CLK11
AD_LE3
C7186
50V
100p
R7134
0
①
②
③
④
⑤
67V
C7163
100V
0.47u
R7176
0
R7173
0
R7106
22
R7107
22
R7139
22
R7141
22
67V
67V
C7105
16V
1u
AA_ODED
AA_CLRD
5V
AA_ODED
AA_CLRD
R7166
47
AB_DDA11
AB_DDB11
AB_DDC11
AB_DDA10
AB_DDB10
AB_DDC10
AD_CLK21
AD_LE2
R7167
47
AB_DDA11
AB_DDB11
AB_DDC11
AB_DDA10
AB_DDB10
AB_DDC10
AD_CLK11
AD_LE2
C7182
50V
100p
R7135
0

TH-42PM50U
C1-Board (2 of 2) Schematic Diagram

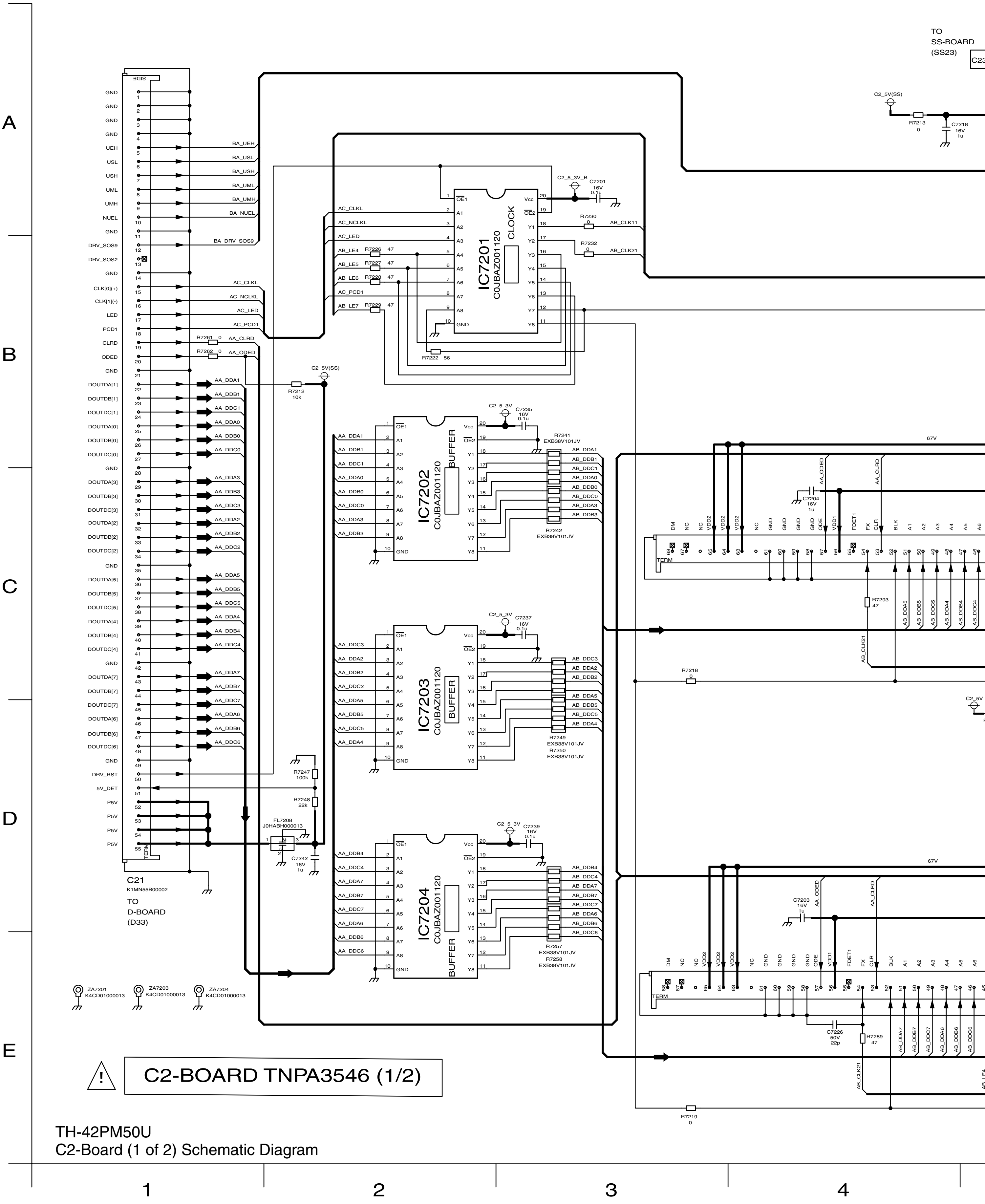
8 9 10 11 12


IC7101
C0JBAZ001120
CLOCK
IC7104
C0JBAZ001120
BUFFER
IC7106
C0JBAZ001120
BUFFER
IC7105
C0JBAZ001120
BUFFER
C1_5_3V_B
C7101
16V
0.1u
AH_CLKR
AH_NCLKR
AH_LED
AH_PCD2
R7108
47
R7126 47 AD_LE1
R7127 47 AD_LE2
R7128 47 AD_LE3
R7130
0
R7132
0
AD_CLK11
AD_CLK21
C1_5_3V
C1_5V
R7161
0
C1_5_3V_B
R7192
0
C1_5V(SS)
R7109
0
C7135
16V
0.1u
C7139
16V
0.1u
C7138
16V
0.1u
R7142
EXB38V101JV
R7154
EXB38V101JV
R7143
EXB38V101JV
R7196
EXB38V101JV
R7148
EXB38V101JV
C7110
16V
1u
C7109
16V
1u
TO
PANEL DATA
DRIVER
CB3
TO
PANEL DATA
DRIVER
CB2
AD_LE3
AD_LE2
R7194
0
R7119
0
R7120
0
AA_ODED
AA_CLRD
R7105
10k
FL7106
J0HABH000013
5V
R7187
22k
R7188
100k
C11
TO
D-BOARD
(D34)
GND
DOUTDC[17]
DOUTDB[17]
DOUTDA[17]
DOUTDC[14]
DOUTDB[14]
DOUTDA[14]
DOUTDC[15]
DOUTDB[15]
DOUTDA[15]
ODED
CLRD
PCD2
LED
CLK[3](-)
CLK[2](+)
DOUTDC[12]
DOUTDB[12]
DOUTDA[12]
DOUTDC[13]
DOUTDB[13]
DOUTDA[13]
DOUTDC[10]
DOUTDB[10]
DOUTDA[10]
DOUTDC[11]
DOUTDB[11]
DOUTDA[11]
DOUTDC[8]
DOUTDB[8]
DOUTDA[8]
DOUTDC[9]
DOUTDB[9]
DOUTDA[9]
DRV_RST
5V_DET
DSHL
DSLL
DMHL
DMLL
DMHR
P5V
TERM
SIDE

TH-42PM50U
C1-Board (2 of 2) Schematic Diagram

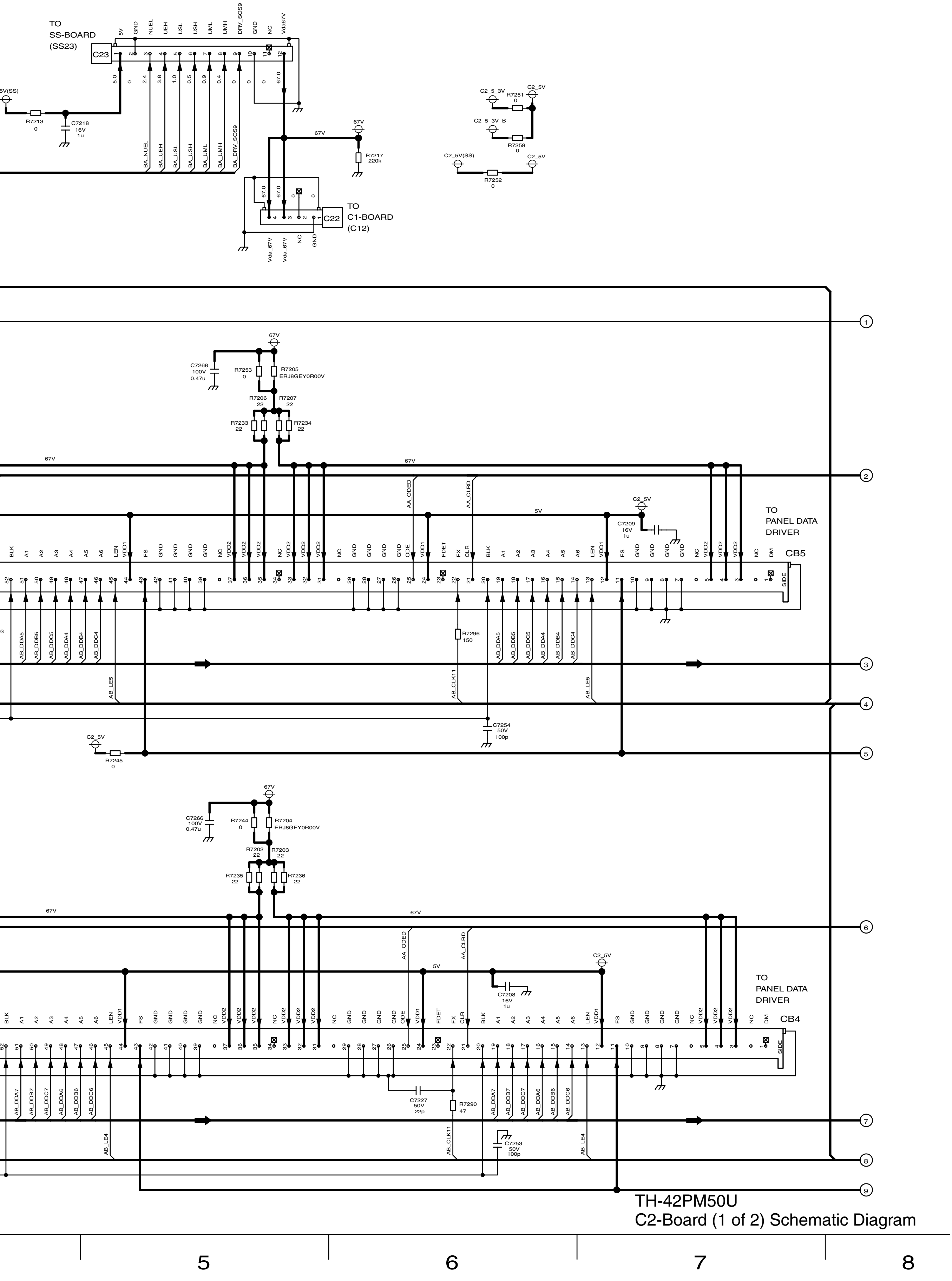
12 13 14 15

13.44. C2-Board (1 of 2) Schematic Diagram


A
B
C
D
E
1
2
3
4
TO
SS-BOARD
(SS23)
C2_5V(SS)
R7213
0
C7218
16V
1u
GND
UEH
USL
USH
UML
UMH
NUEL
DRV_SOS9
DRV_SOS2
CLK[0](+)
CLK[1](-)
LED
PCD1
CLRD
ODED
DOUTDA[1]
DOUTDB[1]
DOUTDC[1]
DOUTDA[0]
DOUTDB[0]
DOUTDC[0]
DOUTDA[3]
DOUTDB[3]
DOUTDC[3]
DOUTDA[2]
DOUTDB[2]
DOUTDC[2]
DOUTDA[5]
DOUTDB[5]
DOUTDC[5]
DOUTDA[4]
DOUTDB[4]
DOUTDC[4]
DOUTDA[7]
DOUTDB[7]
DOUTDC[7]
DOUTDA[6]
DOUTDB[6]
DOUTDC[6]
DRV_RST
5V_DET
P5V
SIDE
TERM
C21
K1MN55B00002
TO
D-BOARD
(D33)
BA_UEH
BA_USL
BA_USH
BA_UML
BA_UMH
BA_NUEL
BA_DRV_SOS9
AC_CLKL
AC_NCLKL
AC_LED
AC_PCD1
AA_CLRD
AA_ODED
R7261 0
R7262 0
C2_5V(SS)
R7212
10k
R7247
100k
R7248
22k
FL7208
J0HABH000013
C7242
16V
1u
IC7201
C0JBAZ001120
CLOCK
C2_5_3V_B
C7201
16V
0.1u
R7230
0
AB_CLK11
R7232
0
AB_CLK21
AB_LE4
AB_LE5
AB_LE6
AB_LE7
R7226 47
R7227 47
R7228 47
R7229 47
R7222 56
IC7202
C0JBAZ001120
BUFFER
C2_5_3V
C7235
16V
0.1u
R7241
EXB38V101JV
R7242
EXB38V101JV
IC7203
C0JBAZ001120
BUFFER
C7237
16V
0.1u
R7249
EXB38V101JV
R7250
EXB38V101JV
IC7204
C0JBAZ001120
BUFFER
C7239
16V
0.1u
R7257
EXB38V101JV
R7258
EXB38V101JV
OE1
OE2
Vcc
GND
A1
A2
A3
A4
A5
A6
A7
A8
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
67V
AA_ODED
AA_CLRD
C7204
16V
1u
C7203
16V
1u
DM
NC
VDD2
VDD1
ODE
FDET1
FX
CLR
BLK
R7293
47
R7289
47
C7226
50V
22p
AB_CLK21
R7218
0
R7219
0
C2_5V
ZA7201
K4CD01000013
ZA7203
K4CD01000013
ZA7204
K4CD01000013

C2-BOARD TNPA3546 (1/2)

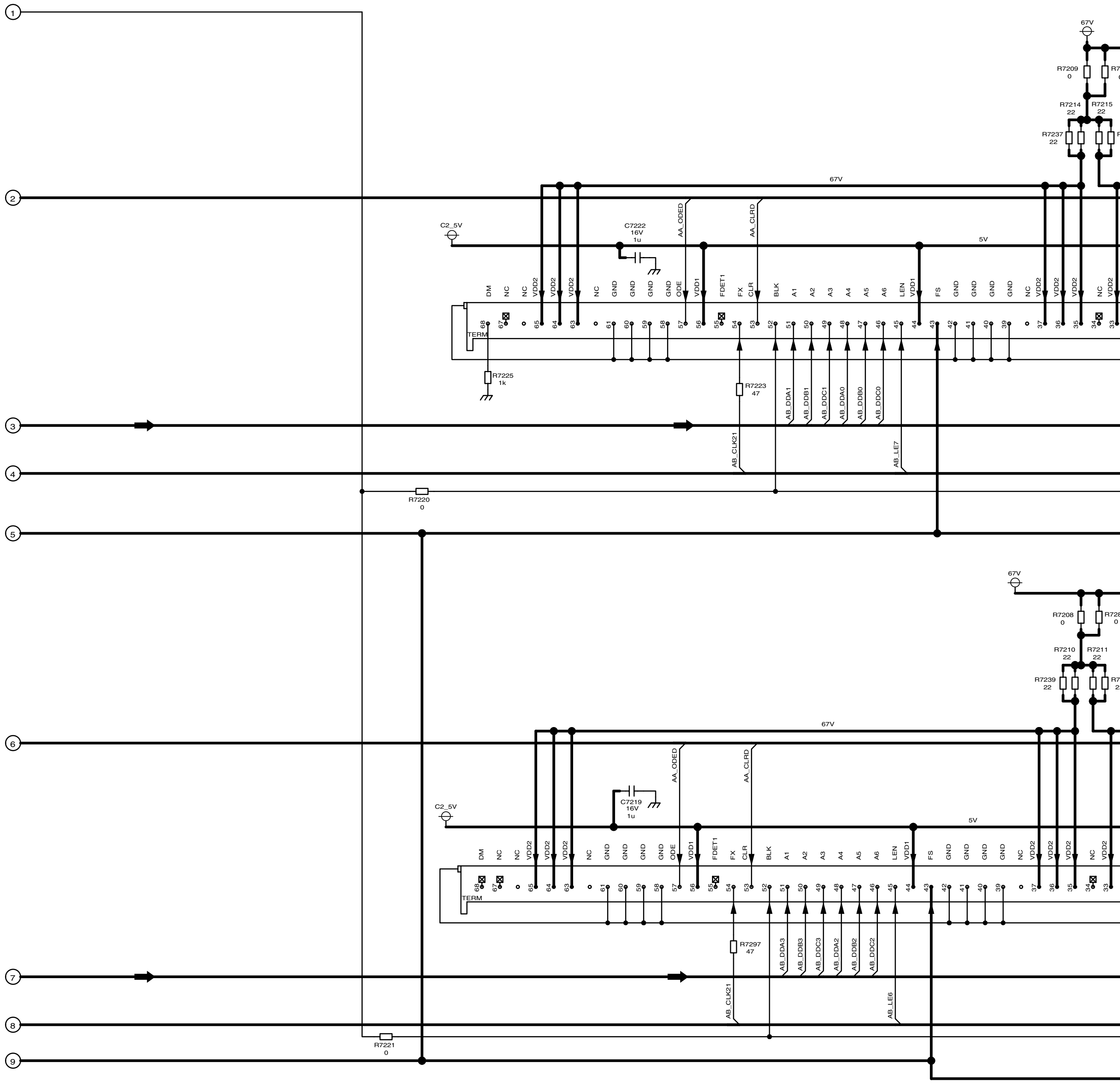
TH-42PM50U
C2-Board (1 of 2) Schematic Diagram


TO
SS-BOARD
(SS23)
C23
5V
GND
NUEL
UEH
USL
USH
UML
UMH
DRV_SOS9
GND
NC
Vda67V
5V(SS)
R7213
0
C7218
16V
1u
BA_NUEL
BA_UEH
BA_USL
BA_USH
BA_UML
BA_UMH
BA_DRV_SOS9
67V
R7217
220k
TO
C1-BOARD
(C12)
C22
Vda_67V
Vda_67V
NC
GND
C2_5_3V
R7251
0
C2_5V
C2_5_3V_B
R7259
0
C2_5V(SS)
R7252
0
C2_5V
C7268
100V
0.47u
R7253
0
R7205
ERJ8GEY0R00V
R7206
22
R7207
22
R7233
22
R7234
22
AA_ODED
AA_CLRD
5V
C2_5V
C7209
16V
1u
TO
PANEL DATA
DRIVER
CB5
BLK
A1
A2
A3
A4
A5
A6
LEN
VDD1
FS
GND
NC
VDD2
ODE
FDET
FX
CLR
DM
SIDE
R7296
150
AB_DDA5
AB_DDB5
AB_DDC5
AB_DDA4
AB_DDB4
AB_DDC4
AB_LE5
AB_CLK11
C7254
50V
100p
C2_5V
R7245
0
C7266
100V
0.47u
R7244
0
R7204
ERJ8GEY0R00V
R7202
22
R7203
22
R7235
22
R7236
22
C7208
16V
1u
TO
PANEL DATA
DRIVER
CB4
C7227
50V
22p
R7290
47
AB_DDA7
AB_DDB7
AB_DDC7
AB_DDA6
AB_DDB6
AB_DDC6
AB_LE4
C7253
50V
100p
1
2
3
4
5
6
7
8
9
5
6
7
8

TH-42PM50U
C2-Board (1 of 2) Schematic Diagram

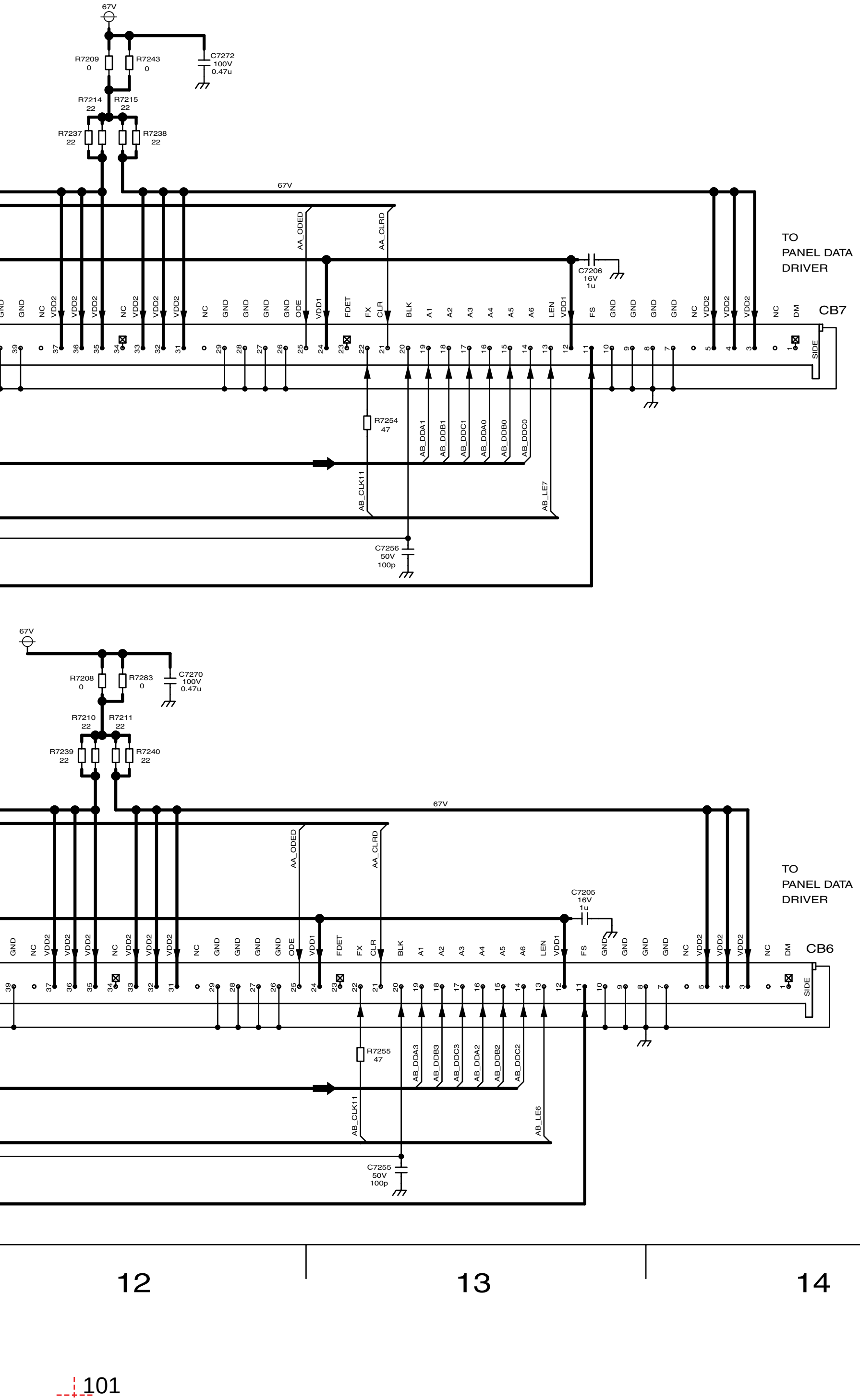
13.45. C2-Board (2 of 2) Schematic Diagram

C2-BOARD TNPA3546 (2/2)


1
2
3
4
5
6
7
8
9
67V
R7209
0
R7214
22
R7215
22
R7237
22
67V
5V
C2_5V
C7222
16V
1u
AA_ODED
AA_CLRD
DM
NC
NC
VDD2
VDD2
VDD2
NC
GND
GND
GND
GND
ODE
VDD1
FDET1
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
VDD1
FS
GND
GND
GND
GND
NC
VDD2
VDD2
VDD2
NC
VDD2
TERM
R7225
1k
R7223
47
AB_DDA1
AB_DDB1
AB_DDC1
AB_DDA0
AB_DDB0
AB_DDC0
AB_CLK21
AB_LE7
R7220
0
67V
R7208
0
R7210
22
R7211
22
R7239
22
C2_5V
C7219
16V
1u
R7297
47
AB_DDA3
AB_DDB3
AB_DDC3
AB_DDA2
AB_DDB2
AB_DDC2
AB_CLK21
AB_LE6
R7221
0

TH-42PM50U C2-Board (2 of 2) Schematic Diagram

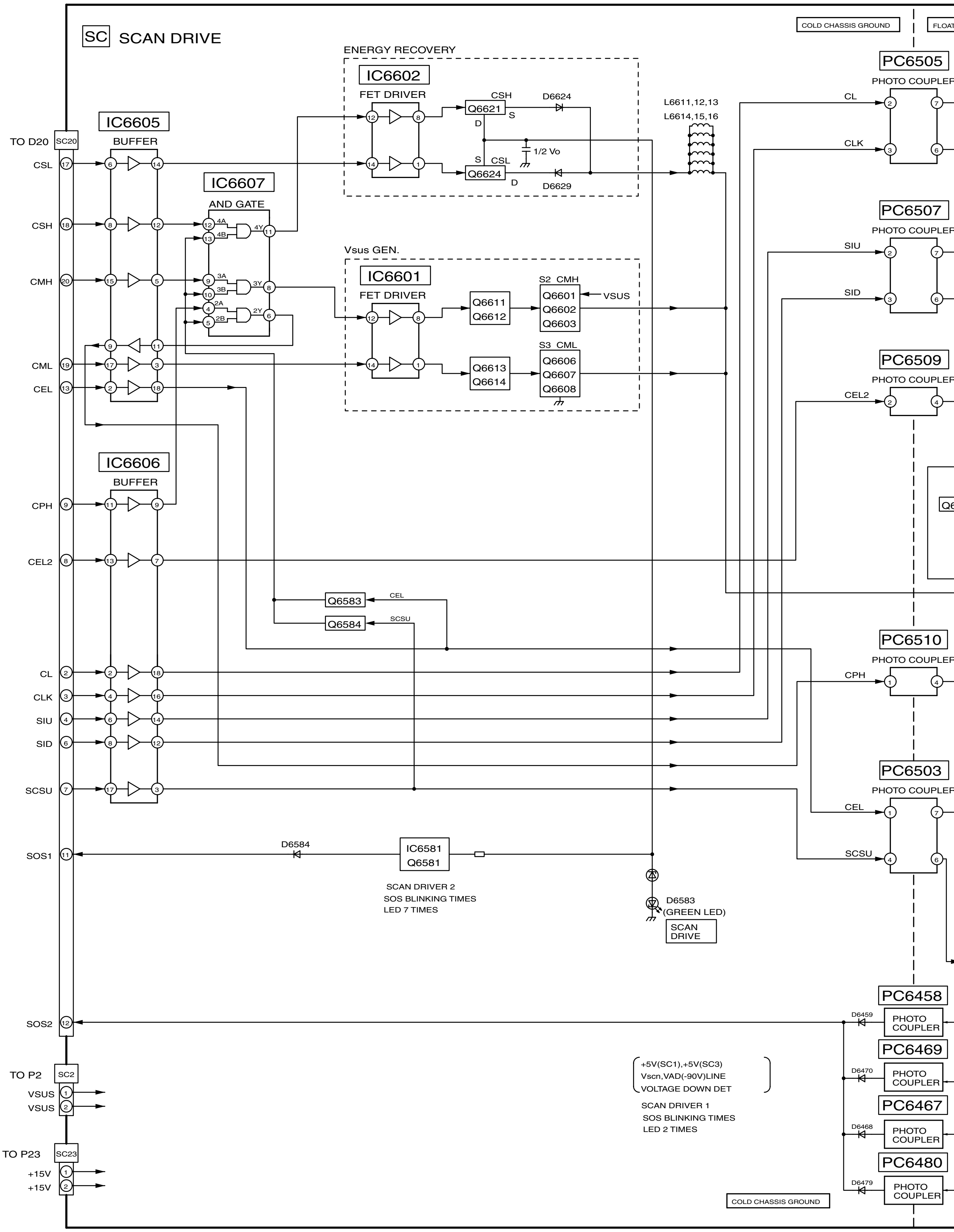
8 9 10 11 12


67V
R7209
0
R7243
0
C7272
100V
0.47u
R7214
22
R7215
22
R7237
22
R7238
22
67V
AA_ODED
AA_CLRD
TO
PANEL DATA
DRIVER
C7206
16V
1u
GND
NC
VDD2
VDD2
VDD2
NC
VDD2
VDD2
VDD2
NC
GND
GND
GND
GND
ODE
VDD1
FDET
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
VDD1
FS
GND
GND
GND
GND
NC
VDD2
VDD2
VDD2
NC
DM
CB7
SIDE
R7254
47
AB_DDA1
AB_DDB1
AB_DDC1
AB_DDA0
AB_DDB0
AB_DDC0
AB_CLK11
AB_LE7
C7256
50V
100p
67V
R7208
0
R7283
0
C7270
100V
0.47u
R7210
22
R7211
22
R7239
22
R7240
22
67V
AA_ODED
AA_CLRD
TO
PANEL DATA
DRIVER
C7205
16V
1u
CB6
SIDE
R7255
47
AB_DDA3
AB_DDB3
AB_DDC3
AB_DDA2
AB_DDB2
AB_DDC2
AB_CLK11
AB_LE6
C7255
50V
100p

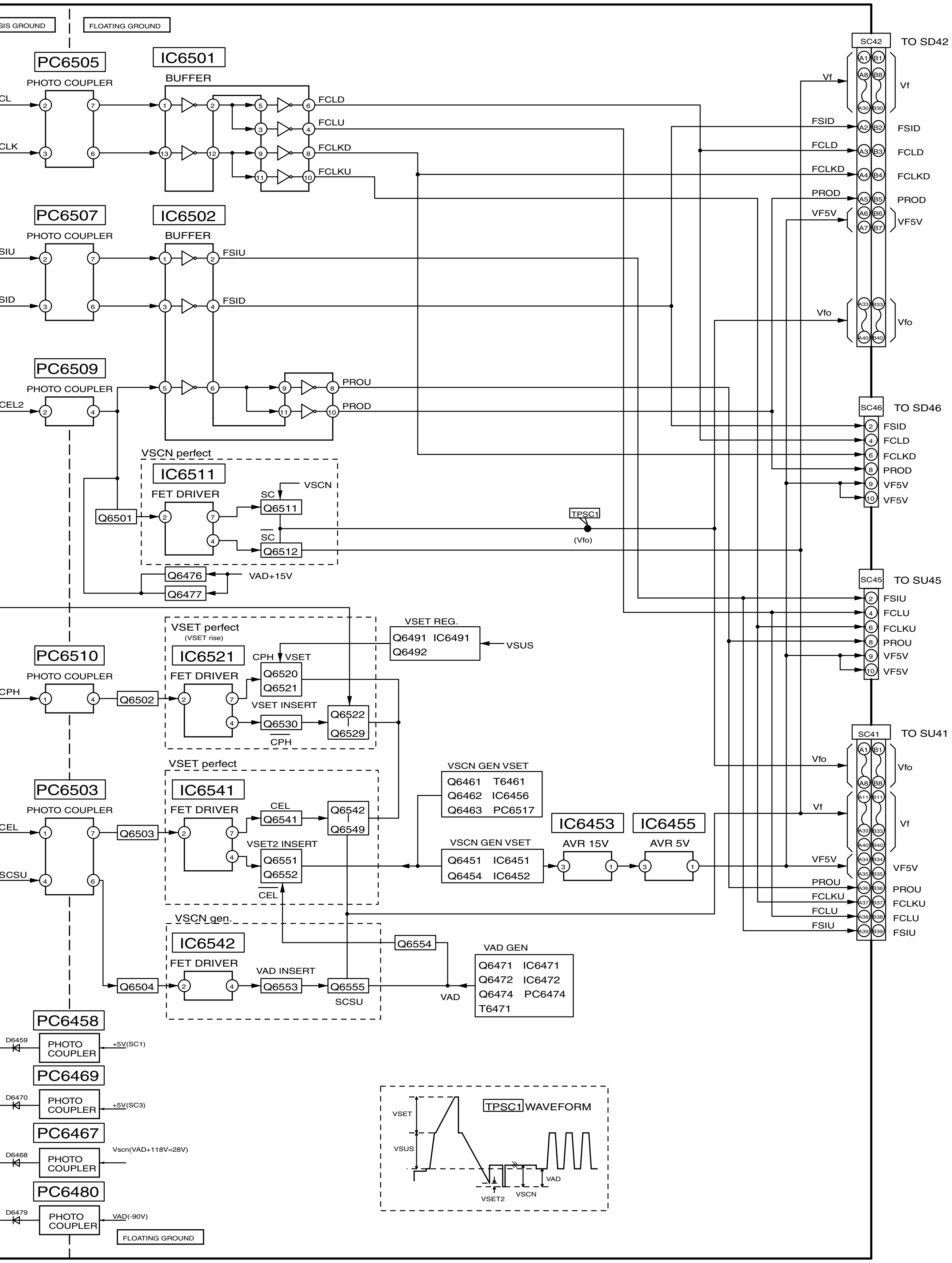
TH-42PM50U
C2-Board (2 of 2) Schematic Diagram

12 13 14 15

13.46. SC-Board Block Diagram

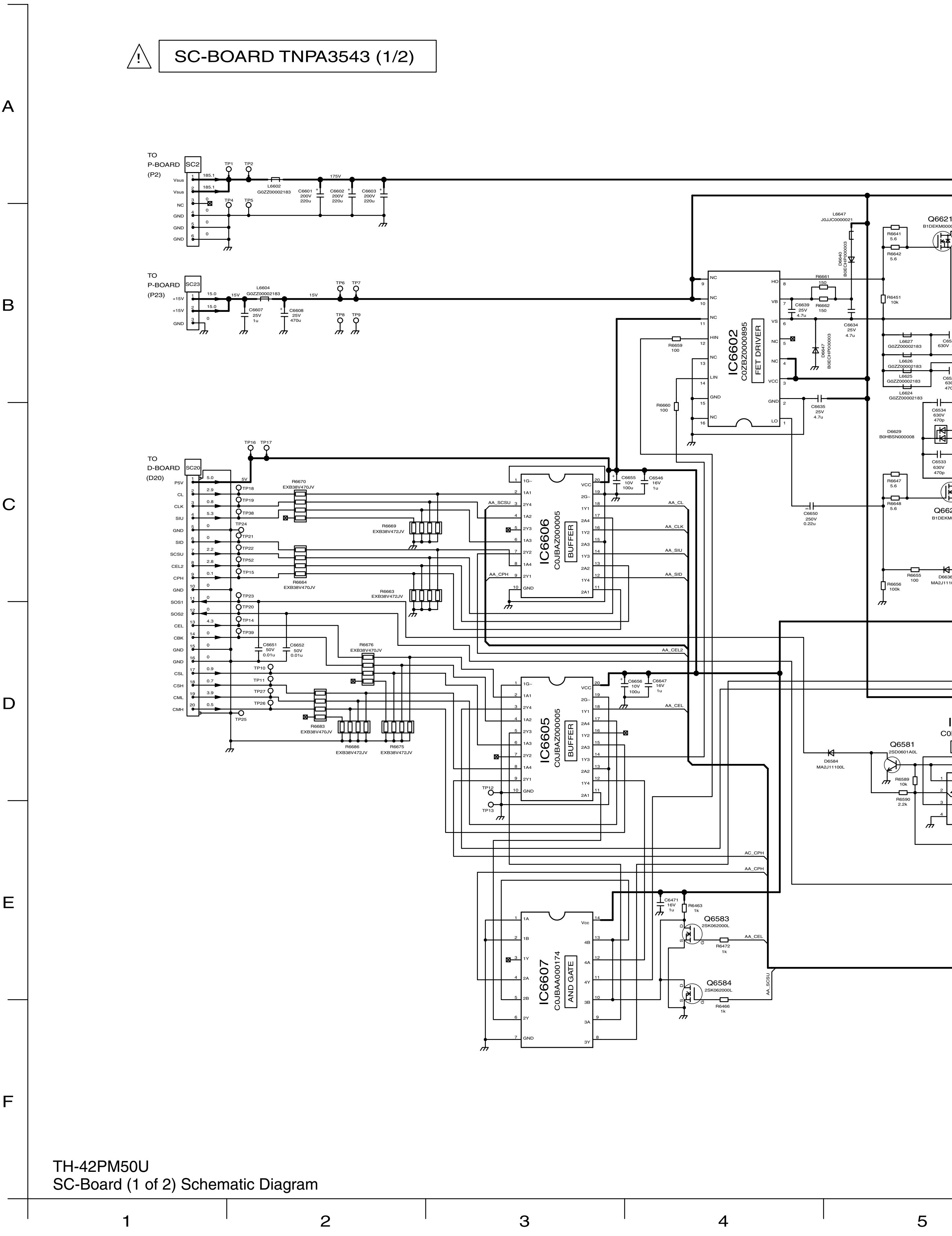

SC SCAN DRIVE
COLD CHASSIS GROUND
ENERGY RECOVERY
IC6602
FET DRIVER
CSH
D6624
Q6621
S
D
1/2 Vo
S CSL
Q6624
D
D6629
L6611,12,13
L6614,15,16
PC6505
PHOTO COUPLER
CL
CLK
TO D20
SC20
IC6605
BUFFER
CSL
CSH
CMH
CML
CEL
IC6607
AND GATE
Vsus GEN.
IC6601
FET DRIVER
Q6611
Q6612
Q6613
Q6614
S2 CMH
Q6601
Q6602
Q6603
VSUS
S3 CML
Q6606
Q6607
Q6608
PC6507
PHOTO COUPLER
SIU
SID
PC6509
PHOTO COUPLER
CEL2
IC6606
BUFFER
CPH
CEL2
Q6583
CEL
Q6584
SCSU
PC6510
PHOTO COUPLER
CPH
CL
CLK
SIU
SID
SCSU
PC6503
PHOTO COUPLER
CEL
SCSU
SOS1
D6584
IC6581
Q6581
SCAN DRIVER 2
SOS BLINKING TIMES
LED 7 TIMES
D6583
(GREEN LED)
SCAN DRIVE
PC6458
D6459
PHOTO COUPLER
SOS2
PC6469
D6470
PHOTO COUPLER
PC6467
D6468
PHOTO COUPLER
PC6480
D6479
PHOTO COUPLER
+5V(SC1),+5V(SC3)
Vscn,VAD(-90V)LINE
VOLTAGE DOWN DET
SCAN DRIVER 1
SOS BLINKING TIMES
LED 2 TIMES
TO P2
SC2
VSUS
VSUS
TO P23
SC23
+15V
+15V
COLD CHASSIS GROUND

TH-42PM50U
SC-Board Block Diagram

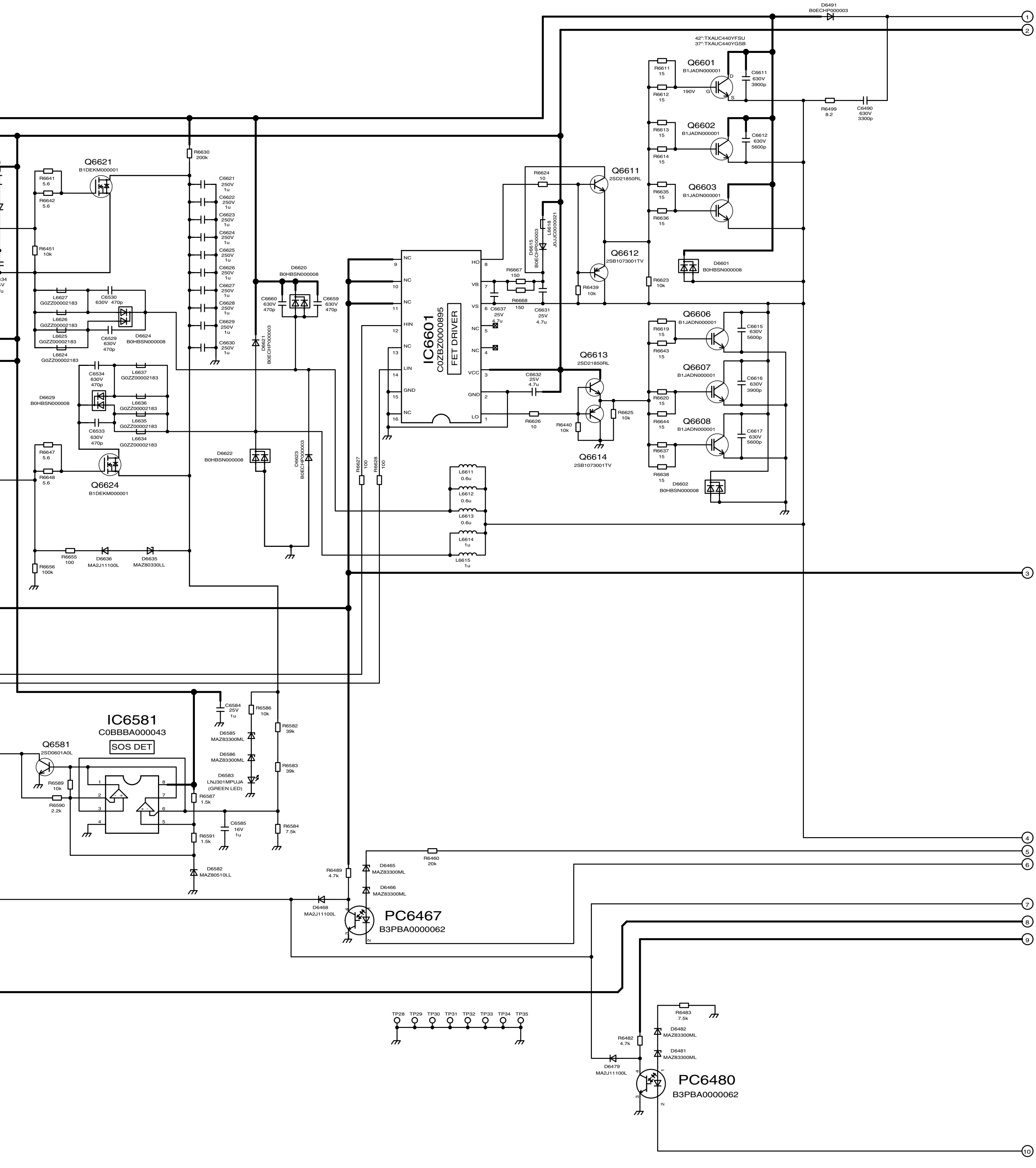

SIS GROUND
FLOATING GROUND
PC6505
PHOTO COUPLER
IC6501
BUFFER
CL
CLK
FCLD
FCLU
FCLKD
FCLKU
PC6507
PHOTO COUPLER
IC6502
BUFFER
SIU
SID
FSIU
FSID
PC6509
PHOTO COUPLER
CEL2
PROU
PROD
VSCN perfect
IC6511
FET DRIVER
SC
VSCN
Q6511
Q6512
Q6501
Q6476
Q6477
VAD+15V
TPSC1
(Vfo)
VSET perfect
(VSET rise)
IC6521
FET DRIVER
CPH
VSET
Q6520
Q6521
VSET INSERT
Q6530
Q6522
Q6529
VSET REG.
Q6491 IC6491
Q6492
VSUS
PC6510
PHOTO COUPLER
CPH
Q6502
VSET perfect
IC6541
FET DRIVER
CEL
Q6541
Q6542
Q6549
VSET2 INSERT
Q6551
Q6552
VSCN GEN VSET
Q6461 T6461
Q6462 IC6456
Q6463 PC6517
VSCN GEN VSET
Q6451 IC6451
Q6454 IC6452
IC6453
AVR 15V
IC6455
AVR 5V
PC6503
PHOTO COUPLER
CEL
SCSU
Q6503
VSCN gen.
IC6542
FET DRIVER
VAD INSERT
Q6553
Q6555
SCSU
Q6554
Q6504
VAD GEN
Q6471 IC6471
Q6472 IC6472
Q6474 PC6474
T6471
VAD
PC6458
D6459
PHOTO COUPLER
+5V(SC1)
PC6469
D6470
PHOTO COUPLER
+5V(SC3)
PC6467
D6468
PHOTO COUPLER
Vscn(VAD+118V=28V)
PC6480
D6479
PHOTO COUPLER
VAD(-90V)
FLOATING GROUND
TPSC1 WAVEFORM
VSET
VSUS
VSET2
VSCN
VAD
SC42
TO SD42
Vf
FSID
FCLD
FCLKD
PROD
VF5V
Vfo
SC46
TO SD46
FSID
FCLD
FCLKD
PROD
VF5V
VF5V
SC45
TO SU45
FSIU
FCLU
FCLKU
PROU
VF5V
VF5V
SC41
TO SU41
Vfo
Vf
VF5V
PROU
FCLKU
FCLU
FSIU

TH-42PM50U
SC-Board Block Diagram

13.47. SC-Board (1 of 2) Schematic Diagram


SC-BOARD TNPA3543 (1/2)
A
B
C
D
E
F
1
2
3
4
5
TO P-BOARD (P2)
SC2
Vsus
Vsus
NC
GND
GND
GND
185.1
185.1
TP1
TP2
TP4
TP5
L6602 G0ZZ00002183
175V
C6601 200V 220u
C6602 200V 220u
C6603 200V 220u
TO P-BOARD (P23)
SC23
+15V
+15V
GND
15.0
15.0
15V
L6604 G0ZZ00002183
C6607 25V 1u
C6608 25V 470u
TP6
TP7
TP8
TP9
TO D-BOARD (D20)
SC20
P5V
CL
CLK
SIU
GND
SID
SCSU
CEL2
CPH
GND
SOS1
SOS2
CEL
CBK
GND
GND
CSL
CSH
CML
CMH
5V
TP16
TP17
TP18
TP19
TP38
TP24
TP21
TP22
TP52
TP15
TP23
TP20
TP14
TP39
TP10
TP11
TP27
TP26
TP25
R6670 EXB38V470JV
R6669 EXB38V472JV
R6664 EXB38V470JV
R6663 EXB38V472JV
C6651 50V 0.01u
C6652 50V 0.01u
R6676 EXB38V470JV
R6683 EXB38V470JV
R6686 EXB38V472JV
R6675 EXB38V472JV
IC6606
C0JBAZ000005
BUFFER
AA_SCSU
AA_CPH
AA_CL
AA_CLK
AA_SIU
AA_SID
AA_CEL2
C6655 10V 100u
C6546 16V 1u
IC6605
C0JBAZ000005
BUFFER
AA_CEL
C6656 10V 100u
C6647 16V 1u
TP12
TP13
IC6602
C0ZBZ0000895
FET DRIVER
NC
HIN
LIN
GND
HO
VB
VS
VCC
LO
R6659 100
R6660 100
R6661 150
R6662 150
C6639 25V 4.7u
C6634 25V 4.7u
C6635 25V 4.7u
D6640 B0ECHP000003
D6647 B0ECHP000003
L6647 J0JJC0000021
Q6621 B1DEKM000
R6641 5.6
R6642 5.6
R6451 10k
L6627 G0ZZ00002183
L6626 G0ZZ00002183
L6625 G0ZZ00002183
L6624 G0ZZ00002183
C6534 630V 470p
C6533 630V 470p
D6629 B0HBSN000008
R6647 5.6
R6648 5.6
C6650 250V 0.22u
R6655 100
R6656 100k
Q6581 2SD0601A0L
D6584 MA2J11100L
R6589 10k
R6590 2.2k
IC6607
C0JBAA000174
AND GATE
C6471 16V 1u
R6463 1k
Q6583 2SK062000L
R6472 1k
Q6584 2SK062000L
R6466 1k
AC_CPH
AA_CPH
AA_SCSU

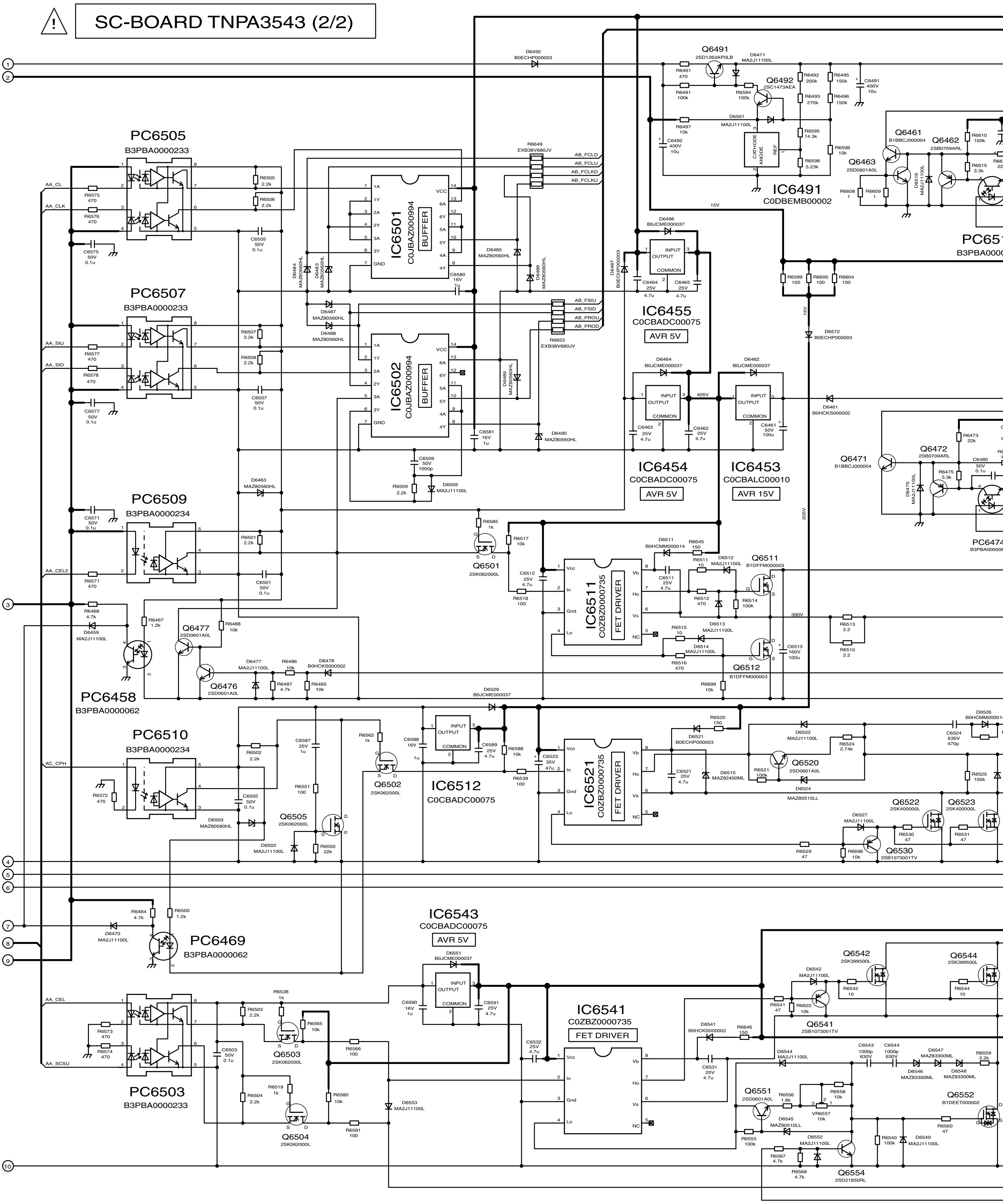
TH-42PM50U
SC-Board (1 of 2) Schematic Diagram

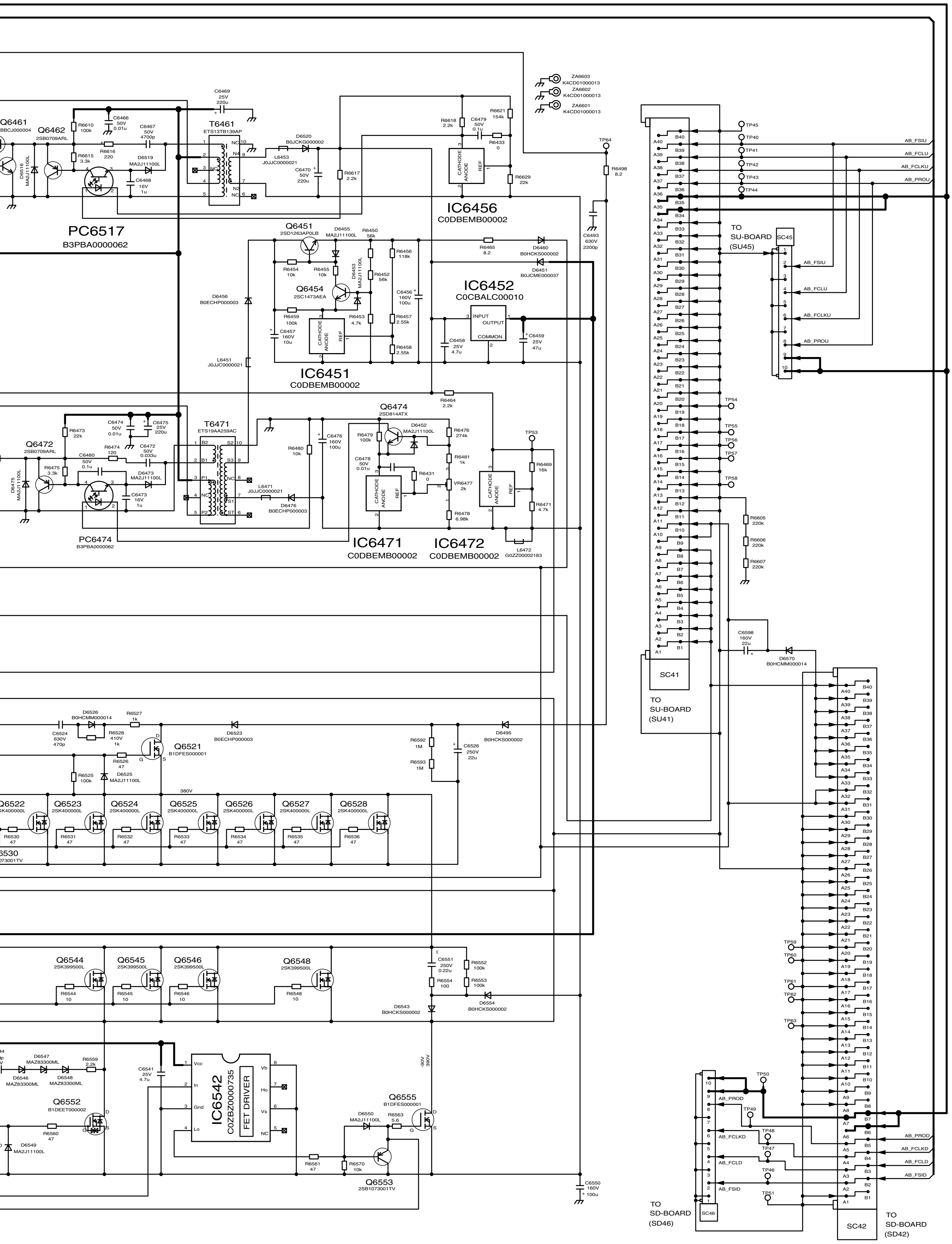

D6491
B0ECHP000003
42":TXAUC440YFSU
37":TXAUC440YGSB
Q6601
B1JADN000001
C6611
630V
3900p
R6611
15
R6612
15
190V
R6499
8.2
C6490
630V
3300p
Q6602
B1JADN000001
C6612
630V
5600p
R6613
15
R6614
15
Q6603
B1JADN000001
R6635
15
R6636
15
D6601
B0HBSN000008
R6623
10k
Q6621
B1DEKM000001
R6641
5.6
R6642
5.6
R6451
10k
R6630
200k
C6621
250V
1u
C6622
250V
1u
C6623
250V
1u
C6624
250V
1u
C6625
250V
1u
C6626
250V
1u
C6627
250V
1u
C6628
250V
1u
C6629
250V
1u
C6630
250V
1u
Q6611
2SD21850RL
R6624
10
Q6612
2SB1073001TV
R6439
10k
D6615
B0ECHP000003
L6618
J0JJC0000021
IC6601
C0ZBZ0000895
FET DRIVER
NC
HIN
LIN
GND
HO
VB
VS
VCC
LO
R6667
150
R6668
150
C6637
25V
4.7u
C6631
25V
4.7u
C6632
25V
4.7u
D6620
B0HBSN000008
C6660
630V
470p
C6659
630V
470p
L6627
G0ZZ00002183
C6530
630V 470p
L6626
G0ZZ00002183
L6625
G0ZZ00002183
C6529
630V
470p
D6624
B0HBSN000008
L6624
G0ZZ00002183
C6534
630V
470p
L6637
G0ZZ00002183
D6629
B0HBSN000008
L6636
G0ZZ00002183
C6533
630V
470p
L6635
G0ZZ00002183
L6634
G0ZZ00002183
D6621
B0ECHP000003
D6622
B0HBSN000008
D6623
B0ECHP000003
R6647
5.6
R6648
5.6
Q6624
B1DEKM000001
Q6613
2SD21850RL
Q6614
2SB1073001TV
R6626
10
R6440
10k
R6625
10k
R6627
100
R6628
100
Q6606
B1JADN000001
C6615
630V
5600p
R6619
15
R6643
15
Q6607
B1JADN000001
C6616
630V
3900p
R6620
15
R6644
15
Q6608
B1JADN000001
C6617
630V
5600p
R6637
15
R6638
15
D6602
B0HBSN000008
L6611
0.6u
L6612
0.6u
L6613
0.6u
L6614
1u
L6615
1u
R6655
100
D6636
MA2J11100L
D6635
MAZ80330LL
R6656
100k
IC6581
C0BBBA000043
SOS DET
Q6581
2SD0601A0L
R6589
10k
R6590
2.2k
C6584
25V
1u
R6586
10k
D6585
MAZ83300ML
D6586
MAZ83300ML
D6583
LNJ301MPUJA
(GREEN LED)
R6587
1.5k
C6585
16V
1u
R6591
1.5k
D6582
MAZ80510LL
R6582
39k
R6583
39k
R6584
7.5k
R6460
20k
D6465
MAZ83300ML
D6466
MAZ83300ML
R6489
4.7k
D6468
MA2J11100L
PC6467
B3PBA0000062
TP28
TP29
TP30
TP31
TP32
TP33
TP34
TP35
R6483
7.5k
D6482
MAZ83300ML
R6482
4.7k
D6481
MAZ83300ML
D6479
MA2J11100L
PC6480
B3PBA0000062
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩

TH-42PM50U
SC-Board (1 of 2) Schematic Diagram

5 6 7 8 9

13.48. SC-Board (2 of 2) Schematic Diagram

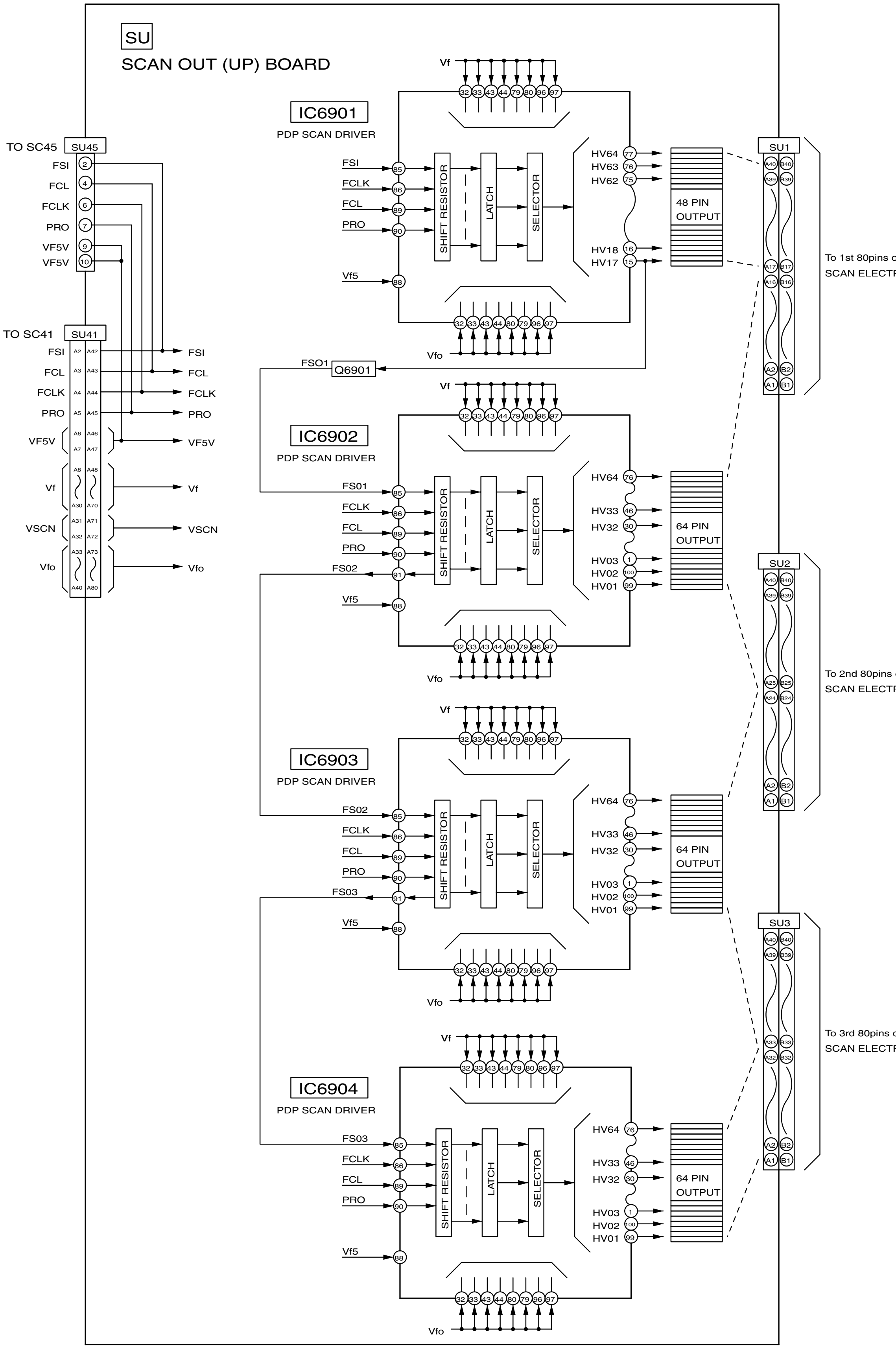

SC-BOARD TNPA3543 (2/2)
1
2
3
4
5
6
7
8
9
10
PC6505
B3PBA0000233
PC6507
B3PBA0000233
PC6509
B3PBA0000234
PC6458
B3PBA0000062
PC6510
B3PBA0000234
PC6469
B3PBA0000062
PC6503
B3PBA0000233
AA_CL
AA_CLK
AA_SIU
AA_SID
AA_CEL2
AC_CPH
AA_CEL
AA_SCSU
IC6501
C0JBAZ000994
BUFFER
IC6502
C0JBAZ000994
BUFFER
R6649
EXB38V680JV
R6653
EXB38V680JV
AB_FCLD
AB_FCLU
AB_FCLKD
AB_FCLKU
AB_FSIU
AB_FSID
AB_PROU
AB_PROD
D6492
B0ECHP000003
Q6491
2SD1263AP0LB
D6471
MA2J11100L
Q6492
2SC1473AEA
D6501
MA2J11100L
IC6491
C0DBEMB00002
CATHODE
ANODE
REF
15V
D6496
B0JCME000037
IC6455
C0CBADC00075
AVR 5V
IC6454
C0CBADC00075
AVR 5V
IC6453
C0CBALC00010
AVR 15V
INPUT
OUTPUT
COMMON
405V
D6464
B0JCME000037
D6462
B0JCME000037
D6461
B0HCKS000002
D6572
B0ECHP000003
Q6461
B1BBCJ000004
Q6462
2SB0709ARL
Q6463
2SD0601A0L
Q6471
B1BBCJ000004
Q6472
2SB0709ARL
PC6474
B3PBA00000
205V
IC6511
C0ZBZ0000735
FET DRIVER
Vcc
In
Gnd
Lo
Vb
Ho
Vs
NC
Q6511
B1DFFM000003
Q6512
B1DFFM000003
390V
Q6501
2SK0620000L
Q6477
2SD0601A0L
Q6476
2SD0601A0L
D6529
B0JCME000037
IC6512
C0CBADC00075
Q6502
2SK0620000L
Q6505
2SK0620000L
IC6521
C0ZBZ0000735
FET DRIVER
Q6520
2SD0601A0L
Q6522
2SK400000L
Q6523
2SK400000L
Q6530
2SB1073001TV
IC6543
C0CBADC00075
AVR 5V
D6551
B0JCME000037
IC6541
C0ZBZ0000735
FET DRIVER
Q6503
2SK0620000L
Q6504
2SK0620000L
D6553
MA2J11100L
Q6541
2SB1073001TV
Q6542
2SK399500L
Q6544
2SK399500L
Q6551
2SD0601A0L
Q6552
B1DEET000002
Q6554
2SD21850RL
VR6557
10k


Q6461
Q6462
2SB0709ARL
R6610
100k
C6466
50V
0.01u
C6467
50V
4700p
C6469
25V
220u
T6461
ETS13TB139AP
R6615
3.3k
R6616
220
D6519
MA2J11100L
C6468
16V
1u
D6516
MA2J11100L
PC6517
B3PBA0000062
D6520
B0JCKG000002
L6453
J0JJC0000021
C6470
50V
220u
R6617
2.2k
R6618
2.2k
C6479
50V
0.1u
R6621
154k
R6433
0
R6629
22k
IC6456
C0DBEMB00002
CATHODE
ANODE
REF
ZA6603
K4CD01000013
ZA6602
K4CD01000013
ZA6601
K4CD01000013
TP64
R6498
8.2
C6493
630V
2200p
Q6451
2SD1263AP0LB
D6455
MA2J11100L
R6450
56k
R6456
118k
R6452
56k
D6453
MA2J11100L
R6454
10k
R6455
10k
Q6454
2SC1473AEA
R6465
8.2
D6460
B0HCKS000002
D6451
B0JCME000037
IC6452
C0CBALC00010
INPUT
OUTPUT
COMMON
D6456
B0ECHP000003
R6459
100k
R6453
4.7k
R6457
2.55k
R6458
2.55k
C6456
160V
100u
C6457
160V
10u
C6458
25V
4.7u
C6459
25V
47u
L6451
J0JJC0000021
IC6451
C0DBEMB00002
R6464
2.2k
Q6474
2SD814ATX
D6452
MA2J11100L
R6476
274k
R6479
100k
R6481
1k
C6478
50V
0.01u
R6431
0
VR6477
2k
R6478
6.98k
TP53
R6469
16k
R6471
4.7k
IC6471
C0DBEMB00002
IC6472
C0DBEMB00002
L6472
G0ZZ00002183
Q6472
2SB0709ARL
R6473
22k
C6474
50V
0.01u
C6475
25V
220u
T6471
ETS19AA259AC
R6474
120
C6472
50V
0.033u
C6480
50V
0.1u
R6475
3.3k
D6473
MA2J11100L
D6475
MA2J11100L
C6473
16V
1u
PC6474
B3PBA0000062
R6480
10k
C6476
160V
100u
L6471
J0JJC0000021
D6476
B0ECHP000003
TP45
TP40
TP41
TP42
TP43
TP44
AB_FSIU
AB_FCLU
AB_FCLKU
AB_PROU
TO
SU-BOARD
(SU45)
SC45
TP54
TP55
TP56
TP57
TP58
R6605
220k
R6606
220k
R6607
220k
SC41
TO
SU-BOARD
(SU41)
C6598
160V
22u
D6570
B0HCMM000014
D6526
B0HCMM000014
R6527
1k
C6524
630V
470p
R6528
410V
1k
Q6521
B1DFES000001
D6523
B0ECHP000003
R6592
1M
R6593
1M
C6526
250V
22u
D6495
B0HCKS000002
R6525
100k
R6526
47
D6525
MA2J11100L
380V
Q6522
Q6523
Q6524
Q6525
Q6526
Q6527
Q6528
2SK400000L
R6530
47
R6531
47
R6532
47
R6533
47
R6534
47
R6535
47
R6536
47
Q6544
Q6545
Q6546
Q6548
2SK399500L
R6544
10
R6545
10
R6546
10
R6548
10
C6551
250V
0.22u
R6552
100k
R6553
100k
R6554
100
D6543
B0HCKS000002
D6554
B0HCKS000002
D6547
MAZ83300ML
R6559
2.2k
D6546
MAZ83300ML
D6548
MAZ83300ML
Q6552
B1DEET000002
R6560
47
D6549
MA2J11100L
C6541
25V
4.7u
IC6542
C0ZBZ0000735
FET DRIVER
Vcc
In
Gnd
Lo
Vb
Ho
Vs
NC
-90V
390V
Q6555
B1DFES000001
D6550
MA2J11100L
R6563
5.6
R6561
47
R6570
10k
Q6553
2SB1073001TV
C6550
160V
100u
TP50
AB_PROD
TP49
TP48
AB_FCLKD
TP47
AB_FCLD
TP46
AB_FSID
TP51
TP59
TP60
TP61
TP62
TP63
TO
SD-BOARD
(SD46)
SC46
SC42
TO
SD-BOARD
(SD42)

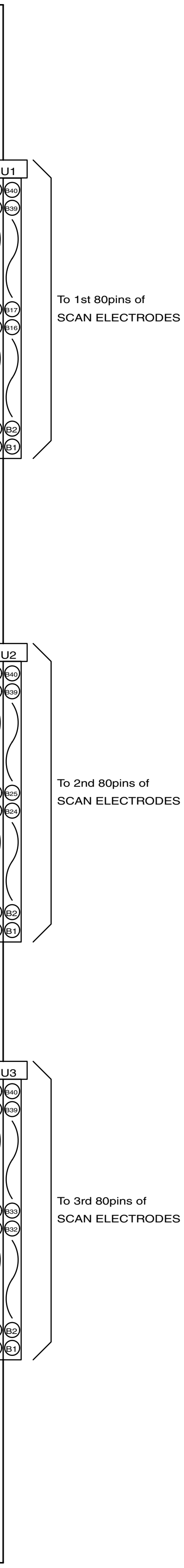
TH-42PM50U SC-Board (2 of 2) Schematic Diagram

14 15 16 17 18

13.49. SU-Board Block Diagram

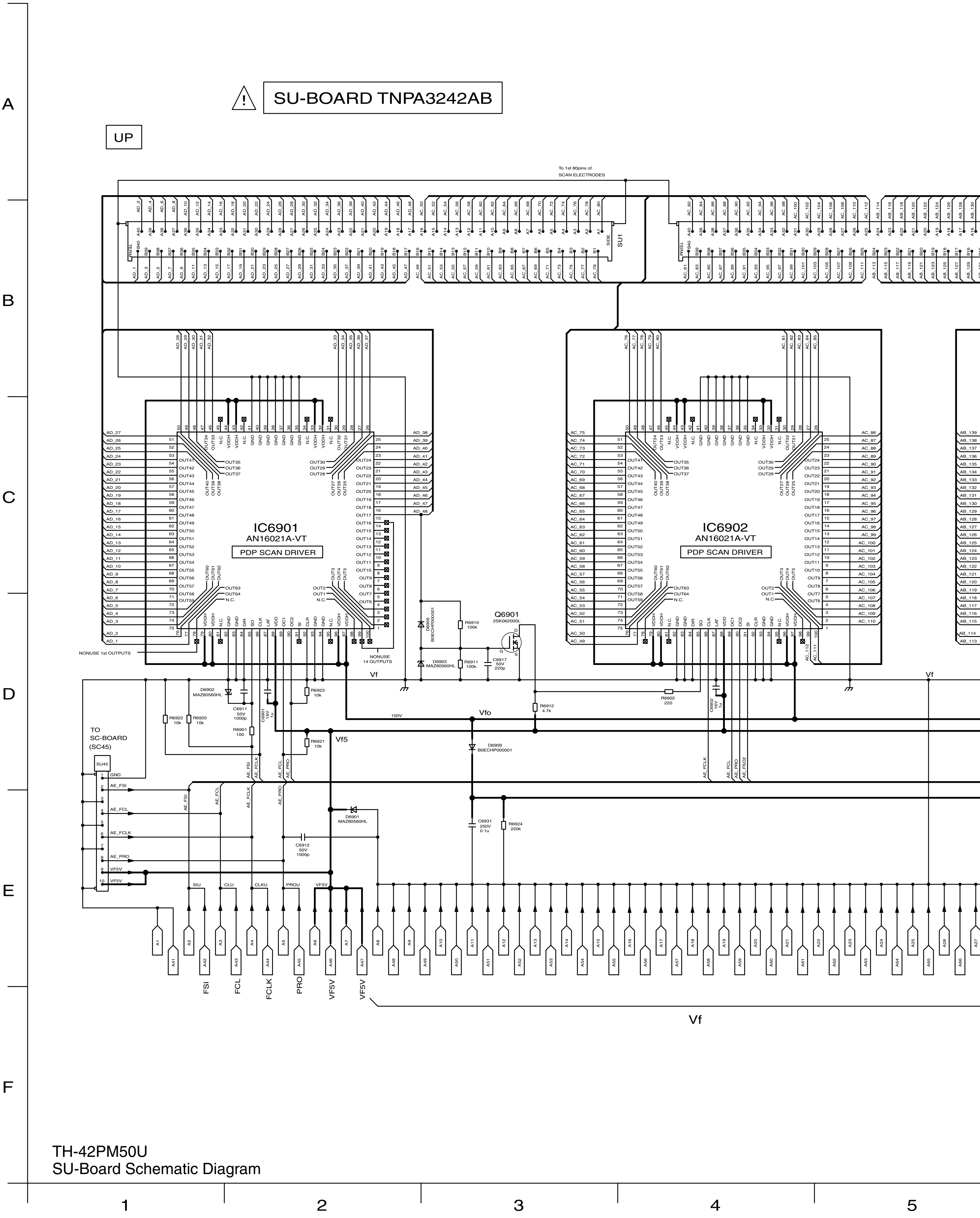

SU
SCAN OUT (UP) BOARD
TO SC45
SU45
FSI
FCL
FCLK
PRO
VF5V
VF5V
TO SC41
SU41
FSI
FCL
FCLK
PRO
VF5V
Vf
VSCN
Vfo
FSI
FCL
FCLK
PRO
VF5V
Vf
VSCN
Vfo
IC6901
PDP SCAN DRIVER
IC6902
PDP SCAN DRIVER
IC6903
PDP SCAN DRIVER
IC6904
PDP SCAN DRIVER
SHIFT RESISTOR
LATCH
SELECTOR
Vf
Vf5
Vfo
FS01
FS02
FS03
FSO1
Q6901
HV64
HV63
HV62
HV18
HV17
HV33
HV32
HV03
HV02
HV01
48 PIN OUTPUT
64 PIN OUTPUT
SU1
SU2
SU3
To 1st 80pins o
SCAN ELECTR
To 2nd 80pins o
SCAN ELECTR
To 3rd 80pins o
SCAN ELECTR

TH-42PM50U
SU-Board Block Diagram

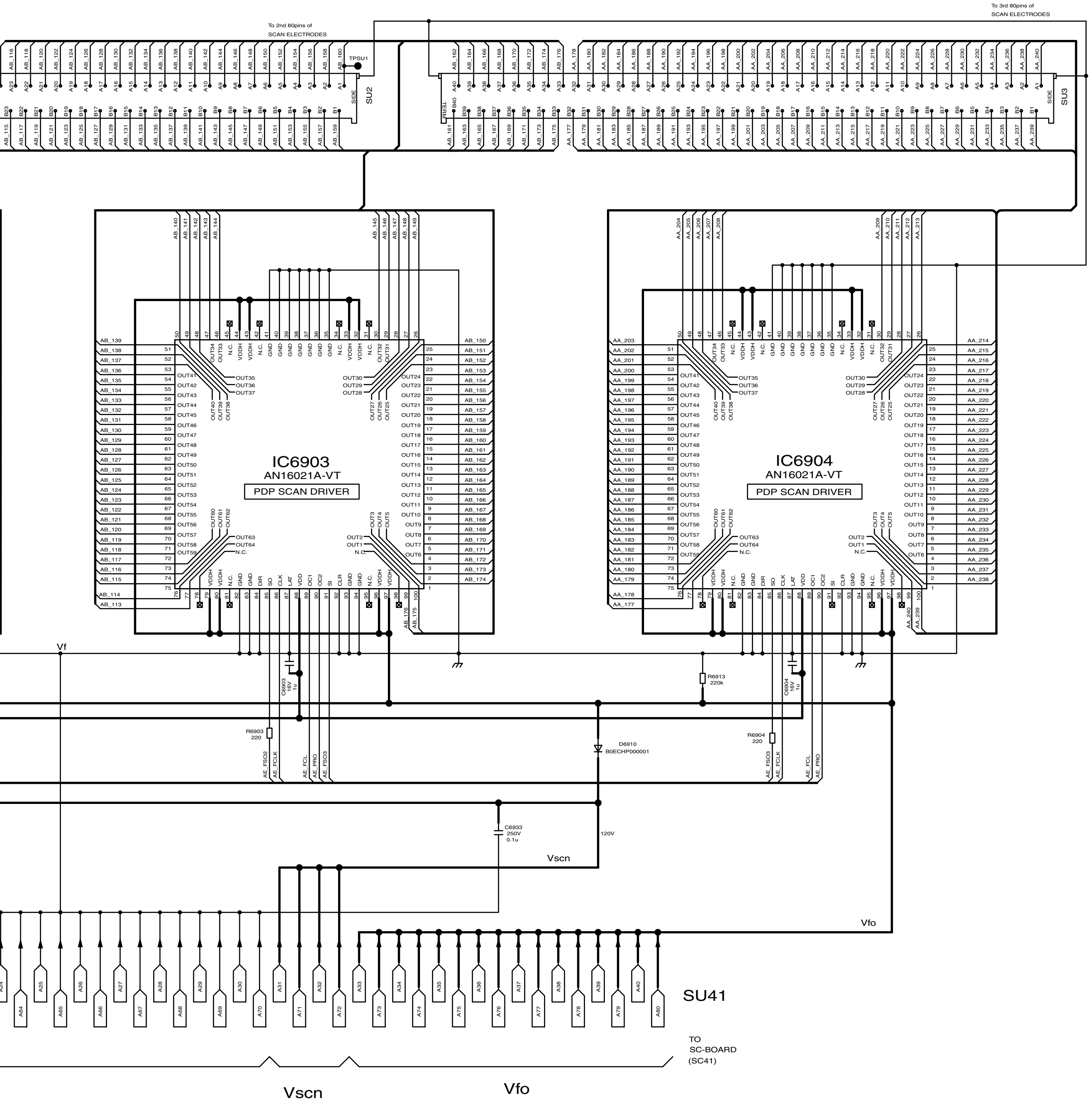

U1
B40
B39
B17
B16
B2
B1
To 1st 80pins of
SCAN ELECTRODES
U2
B40
B39
B25
B24
B2
B1
To 2nd 80pins of
SCAN ELECTRODES
U3
B40
B39
B33
B32
B2
B1
To 3rd 80pins of
SCAN ELECTRODES

TH-42PM50U
SU-Board Block Diagram

13.50. SU-Board Schematic Diagram


A
B
C
D
E
F
1
2
3
4
5
SU-BOARD TNPA3242AB
UP
To 1st 80pins of SCAN ELECTRODES
SU1
IC6901
AN16021A-VT
PDP SCAN DRIVER
IC6902
AN16021A-VT
PDP SCAN DRIVER
Q6901
2SK062000L
NONUSE 1st OUTPUTS
NONUSE 14 OUTPUTS
D6902 MAZ80560HL
C6911 50V 1000p
C6901 16V 1u
R6923 10k
R6922 10k
R6920 10k
R6901 100
R6921 10k
D6905 B0ECHP000001
D6903 MAZ80560HL
R6910 100k
R6911 100k
C6917 50V 220p
R6912 4.7k
R6902 220
C6902 16V 1u
D6909 B0ECHP000001
D6901 MAZ80560HL
C6912 50V 1000p
C6931 250V 0.1u
R6924 220k
150V
Vf
Vfo
Vf5
TO SC-BOARD (SC45)
SU45
GND
AE_FSI
AE_FCL
AE_FCLK
AE_PRO
VF5V
SIU
CLU
CLKU
PROU
FSI
FCL
FCLK
PRO
VF5V

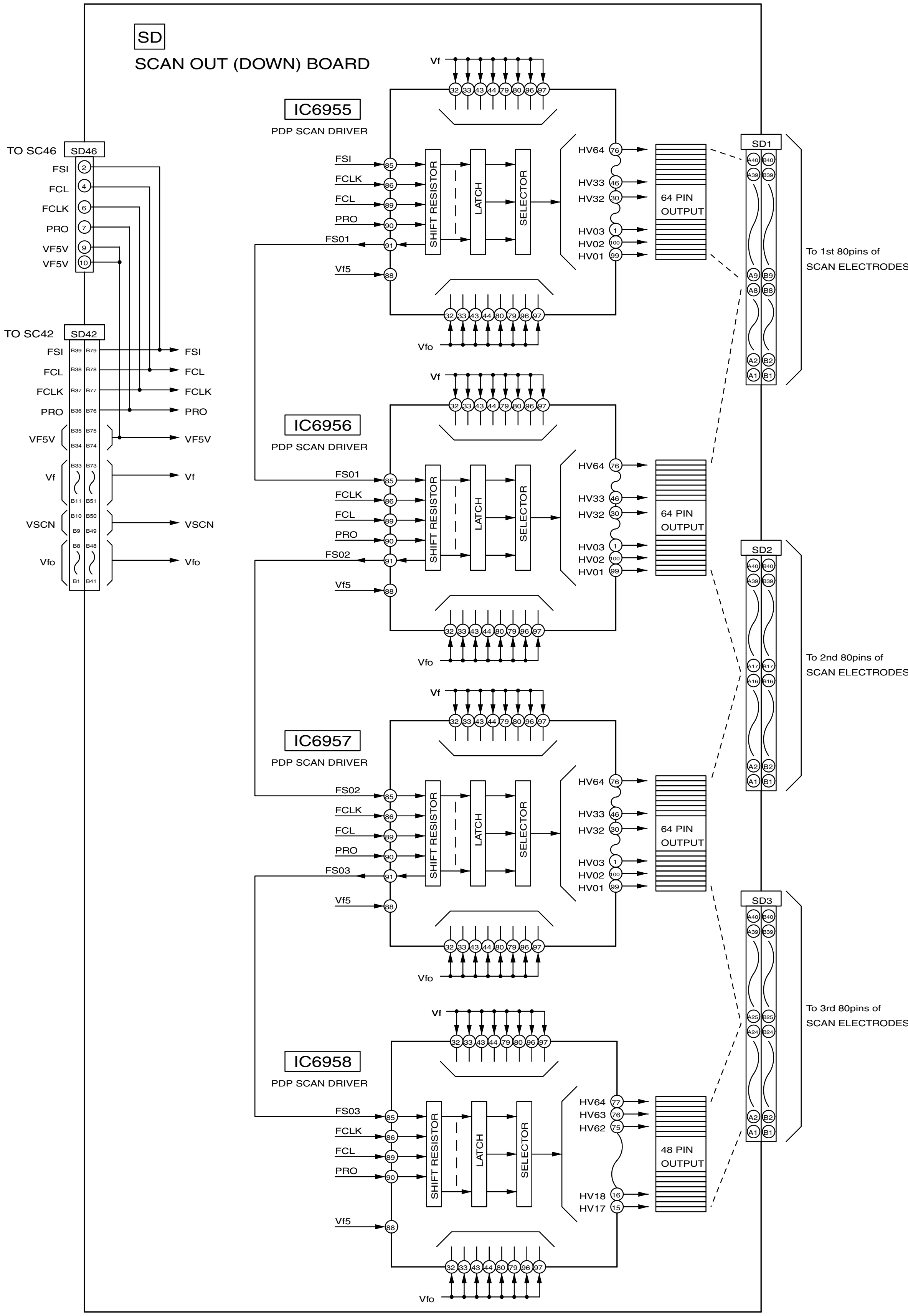
TH-42PM50U
SU-Board Schematic Diagram


To 2nd 80pins of
SCAN ELECTRODES
To 3rd 80pins of
SCAN ELECTRODES
TPSU1
SU2
SU3
IC6903
AN16021A-VT
PDP SCAN DRIVER
IC6904
AN16021A-VT
PDP SCAN DRIVER
Vf
C6903
16V
1u
R6903
220
C6904
16V
1u
R6904
220
R6913
220k
D6910
B0ECHP000001
C6933
250V
0.1u
120V
Vscn
Vfo
AE_FSO2
AE_FCLK
AE_FCL
AE_PRO
AE_FSO3
SU41
TO
SC-BOARD
(SC41)
Vscn
Vfo

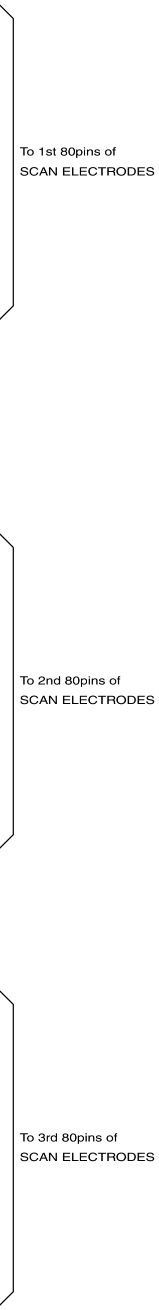
TH-42PM50U
SU-Board Schematic Diagram

5	6	7	8	9

13.51. SD-Board Block Diagram

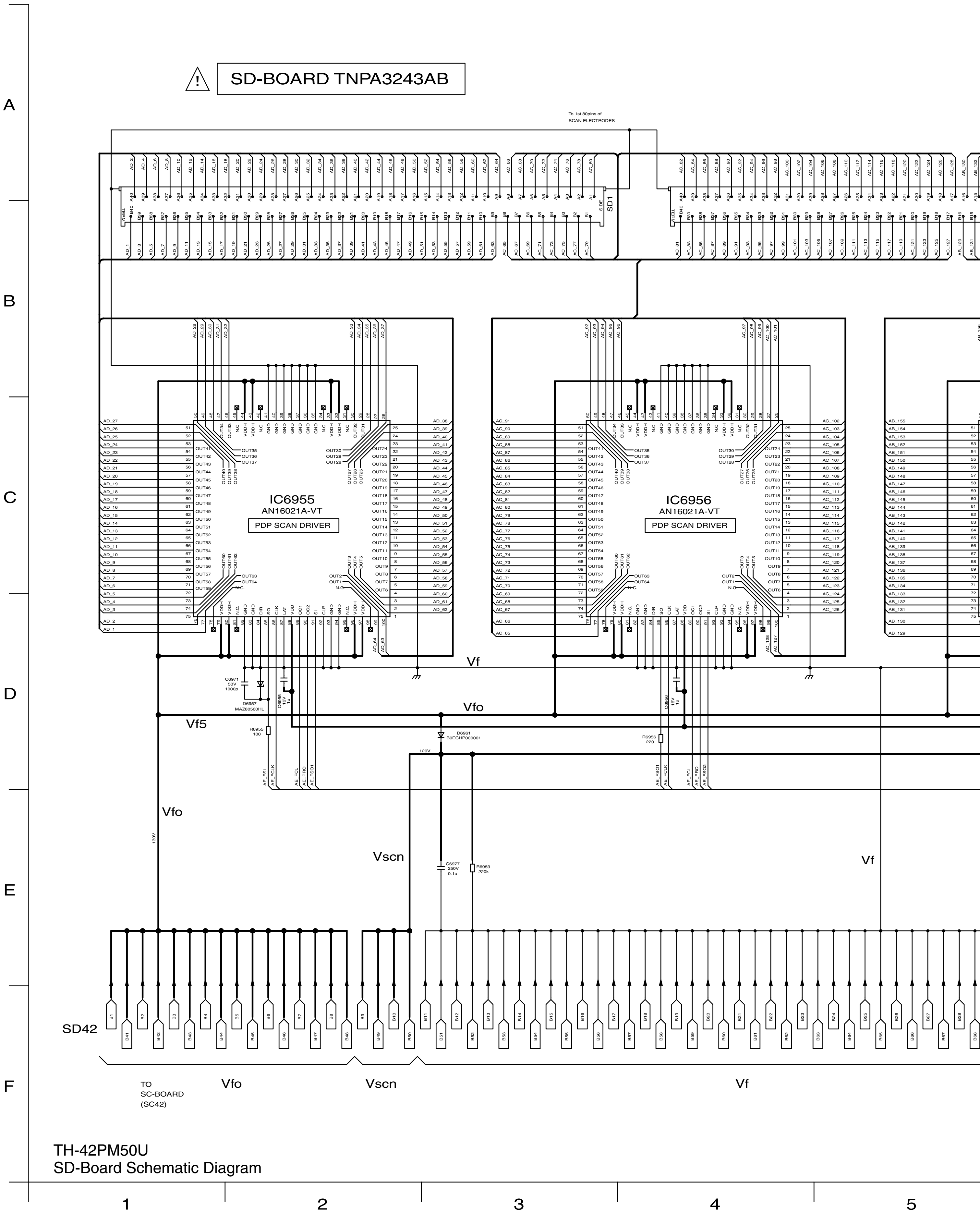

SD
SCAN OUT (DOWN) BOARD
TO SC46
SD46
FSI
FCL
FCLK
PRO
VF5V
VF5V
2
4
6
7
9
10
TO SC42
SD42
FSI
FCL
FCLK
PRO
VF5V
Vf
VSCN
Vfo
B39 B79
B38 B78
B37 B77
B36 B76
B35 B75
B34 B74
B33 B73
B11 B51
B10 B50
B9 B49
B8 B48
B1 B41
FSI
FCL
FCLK
PRO
VF5V
Vf
VSCN
Vfo
IC6955
PDP SCAN DRIVER
IC6956
PDP SCAN DRIVER
IC6957
PDP SCAN DRIVER
IC6958
PDP SCAN DRIVER
Vf
Vfo
32 33 43 44 79 80 96 97
32 33 43 44 80 79 96 97
FSI
FCLK
FCL
PRO
FS01
Vf5
FS01
FS02
FS02
FS03
FS03
85
86
89
90
91
88
SHIFT RESISTOR
LATCH
SELECTOR
HV64
HV33
HV32
HV03
HV02
HV01
76
46
30
1
100
99
HV64
HV63
HV62
HV18
HV17
77
76
75
16
15
64 PIN OUTPUT
48 PIN OUTPUT
SD1
SD2
SD3
A40 B40
A39 B39
A9 B9
A8 B8
A17 B17
A16 B16
A25 B25
A24 B24
A2 B2
A1 B1
To 1st 80pins of SCAN ELECTRODES
To 2nd 80pins of SCAN ELECTRODES
To 3rd 80pins of SCAN ELECTRODES

TH-42PM50U
SD-Board Block Diagram

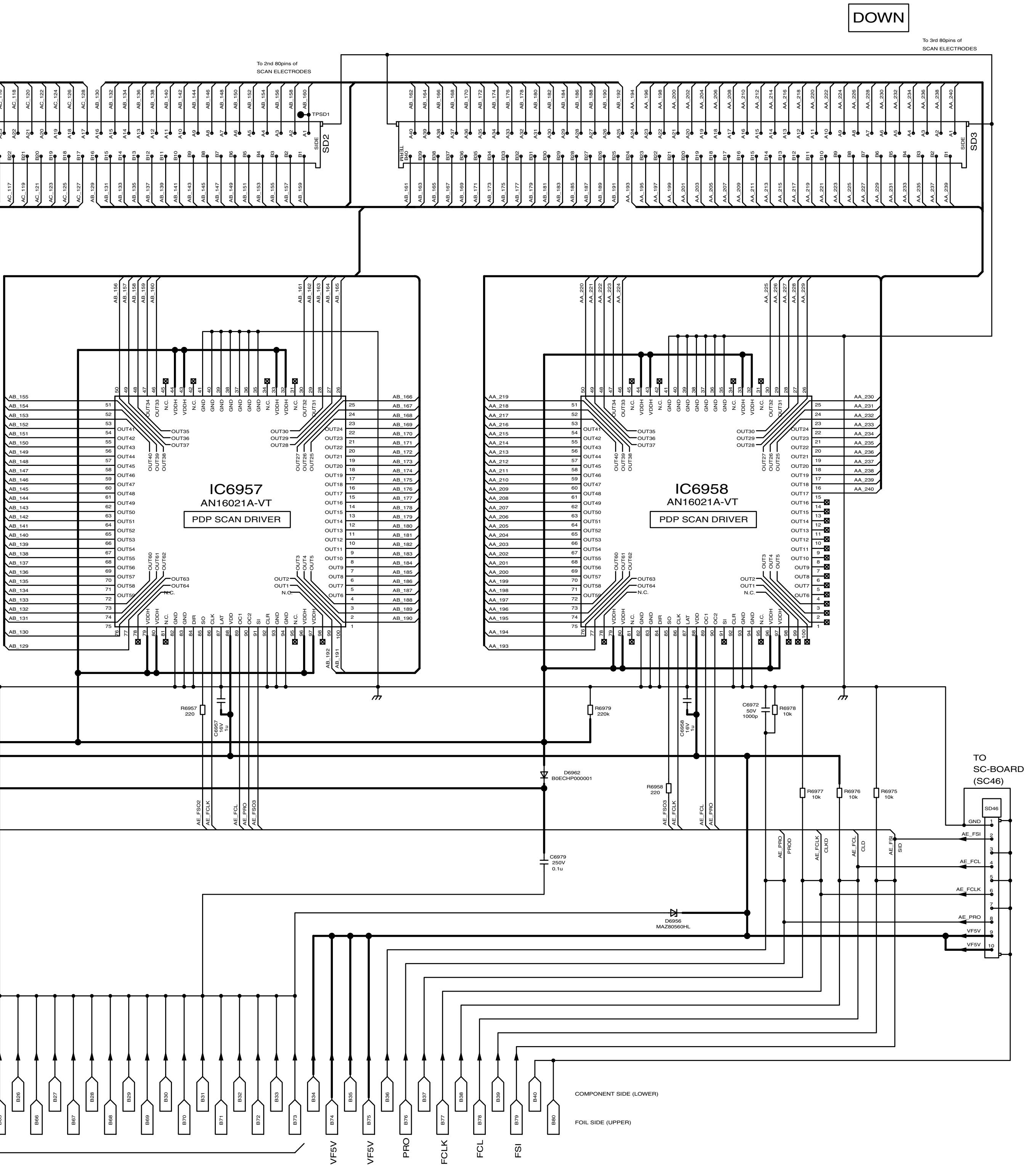

To 1st 80pins of
SCAN ELECTRODES
To 2nd 80pins of
SCAN ELECTRODES
To 3rd 80pins of
SCAN ELECTRODES

TH-42PM50U
SD-Board Block Diagram

13.52. SD-Board Schematic Diagram


SD-BOARD TNPA3243AB
To 1st 80pins of SCAN ELECTRODES
SD1
TERM
SIDE
IC6955
AN16021A-VT
PDP SCAN DRIVER
IC6956
AN16021A-VT
PDP SCAN DRIVER
C6971 50V 1000p
D6957 MAZ80560HL
C6955 16V 1u
R6955 100
C6956 16V 1u
R6956 220
D6961 B0ECHP000001
120V
130V
C6977 250V 0.1u
R6959 220k
Vf
Vfo
Vf5
Vscn
AE_FSI
AE_FCLK
AE_FCL
AE_PRO
AE_FSO1
AE_FSO2
SD42
TO SC-BOARD (SC42)
A
B
C
D
E
F
1
2
3
4
5

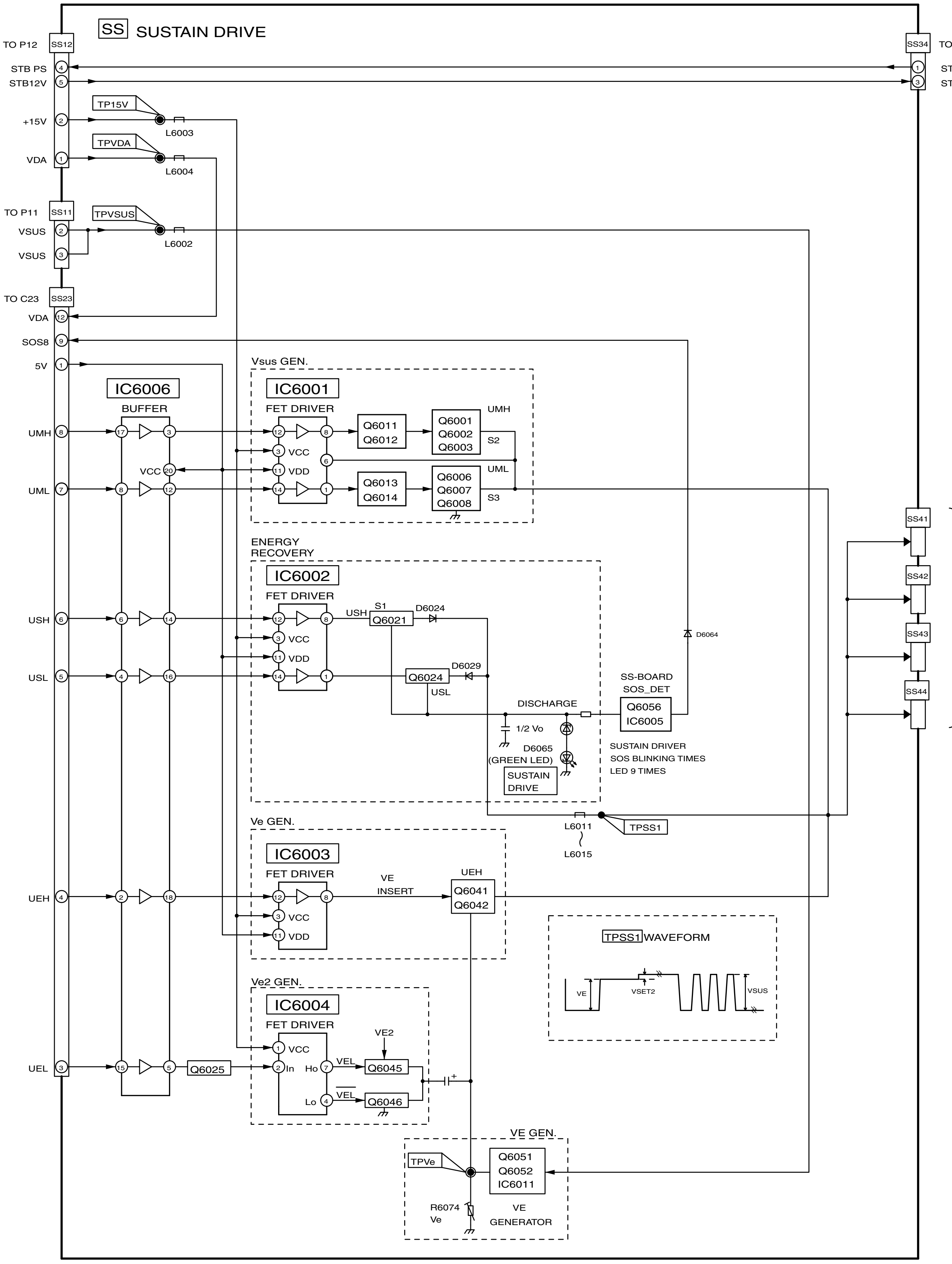
TH-42PM50U
SD-Board Schematic Diagram


DOWN
To 2nd 80pins of SCAN ELECTRODES
To 3rd 80pins of SCAN ELECTRODES
TPSD1
SD2
SD3
IC6957
AN16021A-VT
PDP SCAN DRIVER
IC6958
AN16021A-VT
PDP SCAN DRIVER
R6957 220
C6957 16V 1u
R6979 220k
C6958 16V 1u
C6972 50V 1000p
R6978 10k
D6962 B0ECHP000001
R6958 220
R6977 10k
R6976 10k
R6975 10k
C6979 250V 0.1u
D6956 MAZ80560HL
TO SC-BOARD (SC46)
SD46
GND
AE_FSI
AE_FCL
AE_FCLK
AE_PRO
VF5V
VF5V
COMPONENT SIDE (LOWER)
FOIL SIDE (UPPER)
VF5V
VF5V
PRO
FCLK
FCL
FSI

TH-42PM50U
SD-Board Schematic Diagram

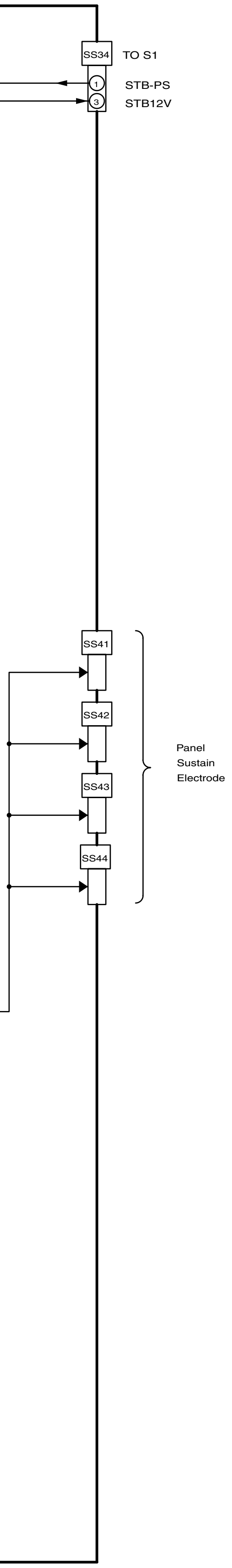
5 6 7 8 9

13.53. SS-Board Block Diagram



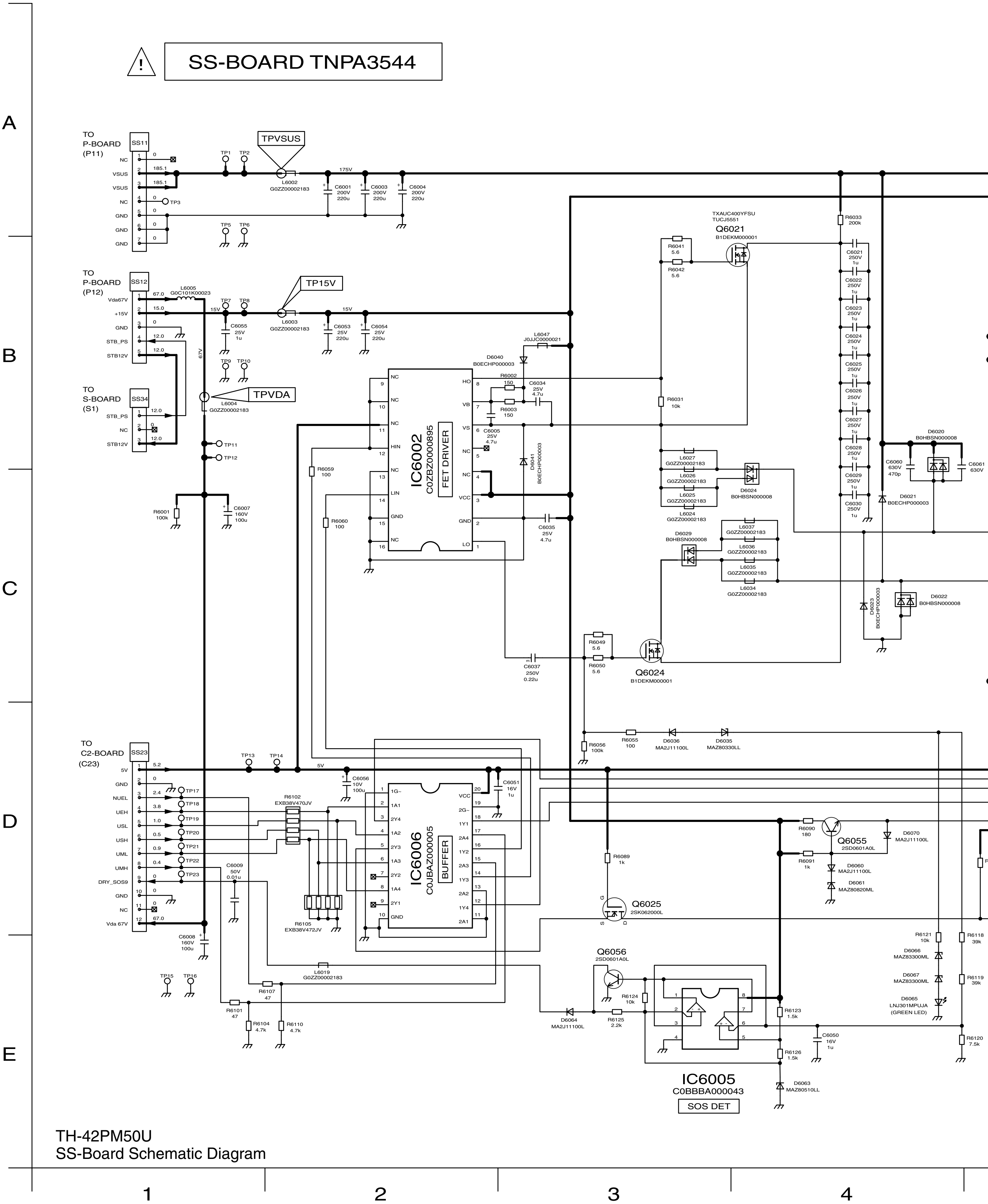
SS SUSTAIN DRIVE
TO P12
SS12
STB PS
STB12V
TP15V
+15V
L6003
TPVDA
VDA
L6004
TO P11
SS11
TPVSUS
VSUS
VSUS
L6002
TO C23
SS23
VDA
SOS8
5V
SS34
TO
ST
ST
Vsus GEN.
IC6006
BUFFER
IC6001
FET DRIVER
UMH
UML
VCC
VDD
Q6011
Q6012
Q6001
Q6002
Q6003
S2
UML
Q6013
Q6014
Q6006
Q6007
Q6008
S3
UMH
SS41
SS42
SS43
SS44
ENERGY RECOVERY
IC6002
FET DRIVER
USH
USL
USH
S1
Q6021
D6024
D6029
Q6024
USL
D6064
SS-BOARD SOS_DET
Q6056
IC6005
DISCHARGE
1/2 Vo
D6065
(GREEN LED)
SUSTAIN DRIVE
SUSTAIN DRIVER
SOS BLINKING TIMES
LED 9 TIMES
L6011
L6015
TPSS1
Ve GEN.
IC6003
FET DRIVER
UEH
VE INSERT
UEH
Q6041
Q6042
TPSS1 WAVEFORM
VE
VSET2
VSUS
Ve2 GEN.
IC6004
FET DRIVER
UEL
Q6025
VCC
In
Ho
Lo
VE2
VEL
Q6045
VEL
Q6046
VE GEN.
TPVe
Q6051
Q6052
IC6011
R6074
Ve
VE GENERATOR

TH-42PM50U
SS-Board Block Diagram

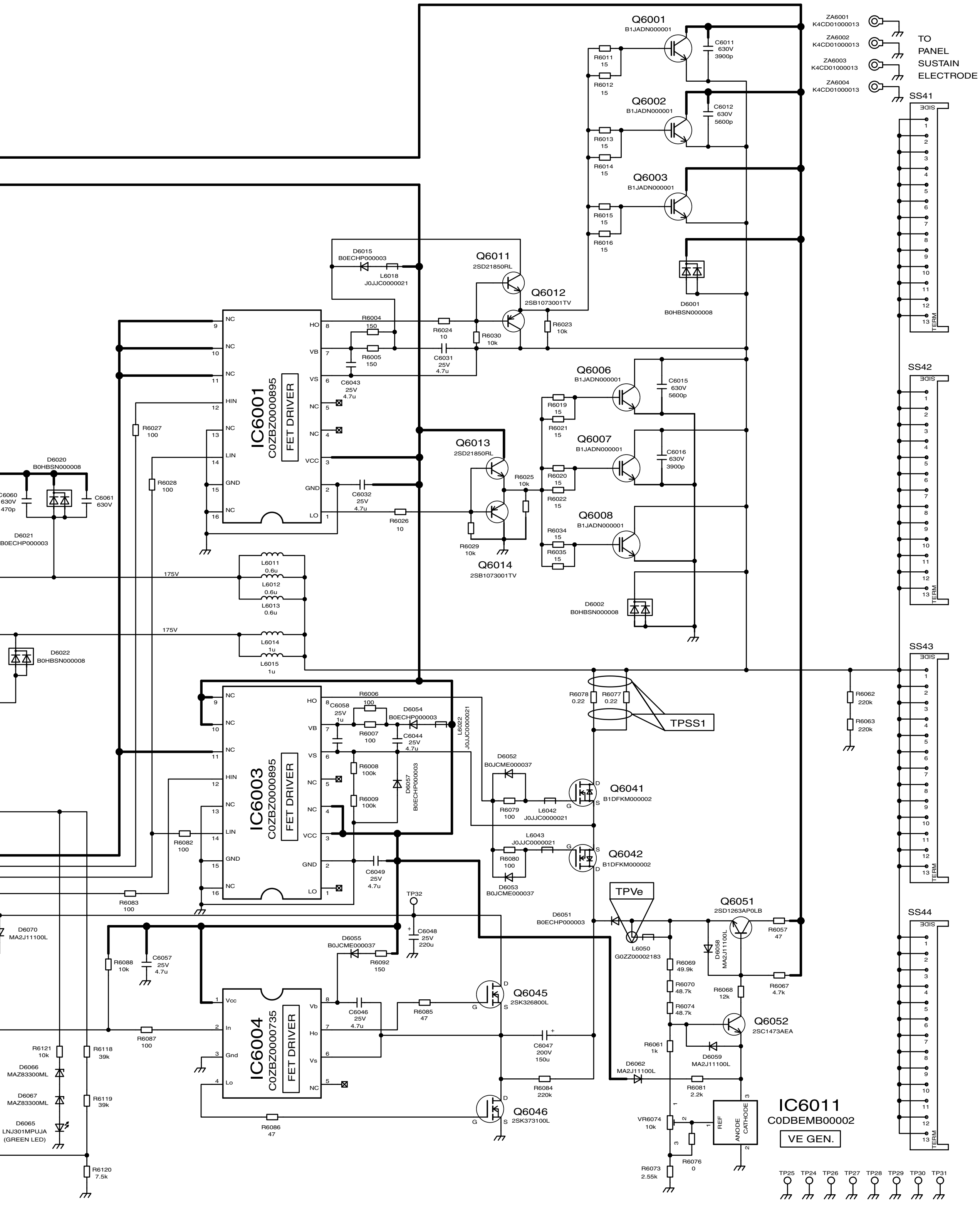

SS34
TO S1
1
3
STB-PS
STB12V
SS41
SS42
SS43
SS44
Panel
Sustain
Electrode

TH-42PM50U
SS-Board Block Diagram

13.54. SS-Board Schematic Diagram

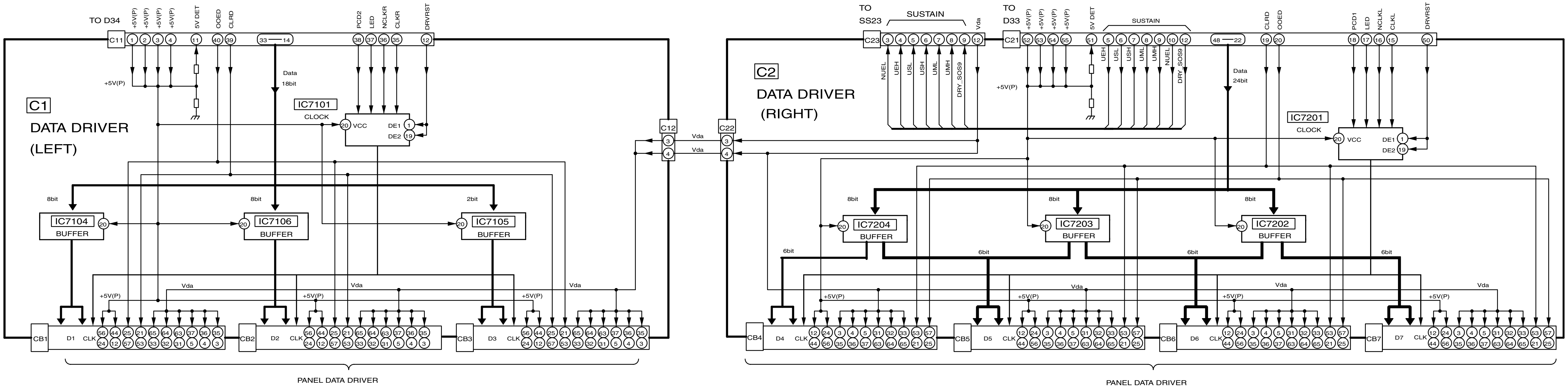

SS-BOARD TNPA3544
A
B
C
D
E
1
2
3
4
TO P-BOARD (P11)
SS11
NC
VSUS
VSUS
NC
GND
GND
GND
TPVSUS
TP1
TP2
TP3
TP5
TP6
L6002 G0ZZ00002183
175V
C6001 200V 220u
C6003 200V 220u
C6004 200V 220u
TO P-BOARD (P12)
SS12
Vda67V
+15V
GND
STB_PS
STB12V
L6005 G0C101K00023
TP15V
TP7
TP8
TP9
TP10
15V
C6055 25V 1u
L6003 G0ZZ00002183
C6053 25V 220u
C6054 25V 220u
67V
TO S-BOARD (S1)
SS34
STB_PS
NC
STB12V
TPVDA
L6004 G0ZZ00002183
TP11
TP12
R6001 100k
C6007 160V 100u
IC6002
C0ZBZ0000895
FET DRIVER
HO
VB
VS
NC
VCC
GND
LO
HIN
LIN
R6059 100
R6060 100
D6040 B0ECHP000003
L6047 J0JJC0000021
R6002 150
R6003 150
C6034 25V 4.7u
C6005 25V 4.7u
D6041 B0ECHP000003
C6035 25V 4.7u
C6037 250V 0.22u
TXAUC400YFSU TUCJ5551
Q6021
B1DEKM000001
R6041 5.6
R6042 5.6
R6031 10k
R6033 200k
C6021 250V 1u
C6022 250V 1u
C6023 250V 1u
C6024 250V 1u
C6025 250V 1u
C6026 250V 1u
C6027 250V 1u
C6028 250V 1u
C6029 250V 1u
C6030 250V 1u
L6027 G0ZZ00002183
L6026 G0ZZ00002183
L6025 G0ZZ00002183
L6024 G0ZZ00002183
D6024 B0HBSN000008
L6037 G0ZZ00002183
L6036 G0ZZ00002183
L6035 G0ZZ00002183
L6034 G0ZZ00002183
D6029 B0HBSN000008
D6020 B0HBSN000008
C6060 630V 470p
C6061 630V
D6021 B0ECHP000003
D6023 B0ECHP000003
D6022 B0HBSN000008
R6049 5.6
R6050 5.6
Q6024
B1DEKM000001
R6056 100k
R6055 100
D6036 MA2J11100L
D6035 MAZ80330LL
TO C2-BOARD (C23)
SS23
5V
GND
NUEL
UEH
USL
USH
UML
UMH
DRY_SOS9
GND
NC
Vda 67V
TP13
TP14
TP17
TP18
TP19
TP20
TP21
TP22
TP23
R6102 EXB38V470JV
C6056 10V 100u
C6009 50V 0.01u
C6008 160V 100u
R6105 EXB38V472JV
IC6006
C0JBAZ000005
BUFFER
C6051 16V 1u
L6019 G0ZZ00002183
TP15
TP16
R6107 47
R6101 47
R6104 4.7k
R6110 4.7k
R6089 1k
Q6025
2SK062000L
Q6056
2SD0601A0L
R6124 10k
D6064 MA2J11100L
R6125 2.2k
IC6005
C0BBBA000043
SOS DET
R6090 180
R6091 1k
Q6055
2SD0601A0L
D6070 MA2J11100L
D6060 MA2J11100L
D6061 MAZ80820ML
R6123 1.5k
R6126 1.5k
C6050 16V 1u
D6063 MAZ80510LL
R6121 10k
R6118 39k
D6066 MAZ83300ML
D6067 MAZ83300ML
R6119 39k
D6065 LNJ301MPUJA (GREEN LED)
R6120 7.5k

TH-42PM50U
SS-Board Schematic Diagram

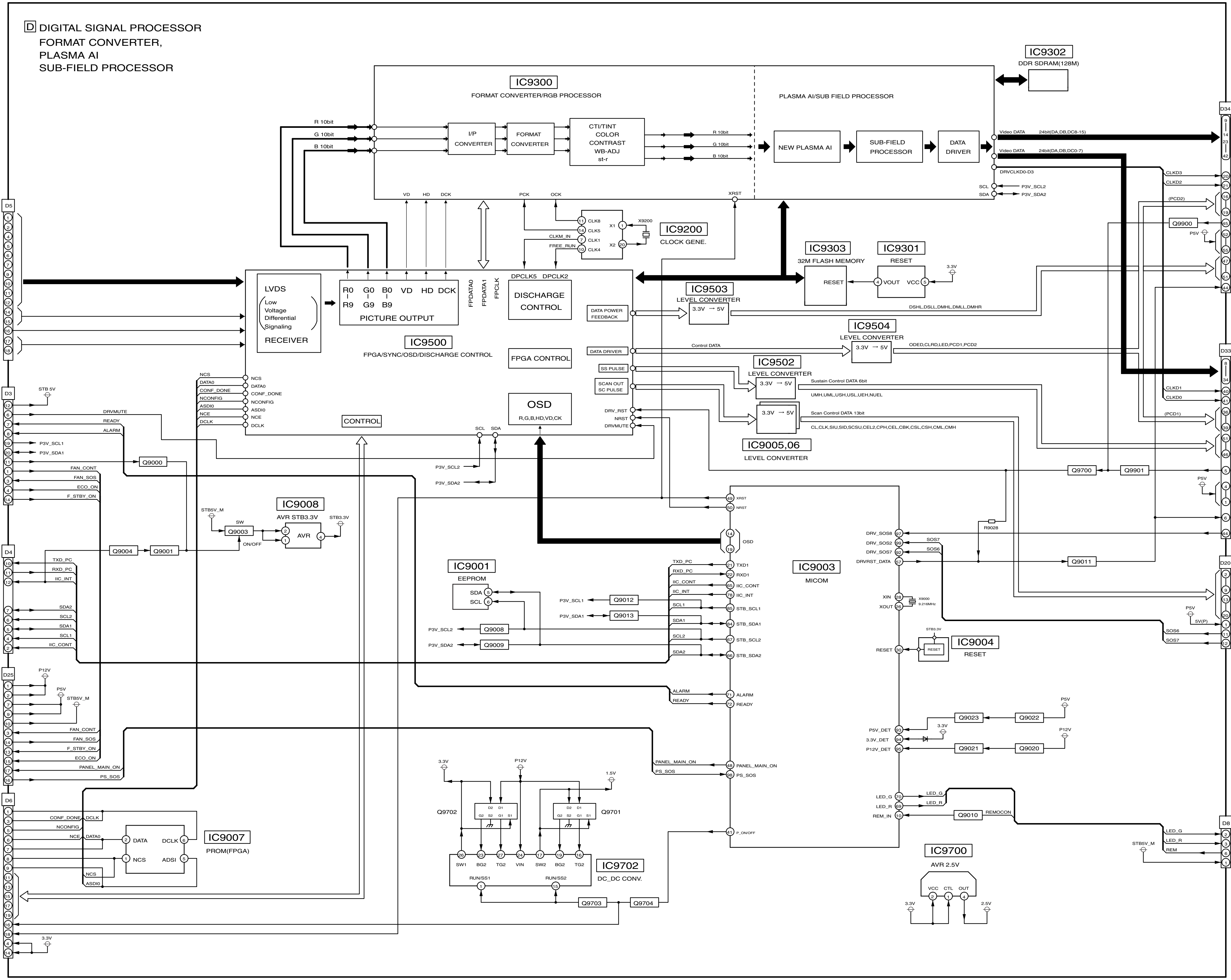

Q6001
B1JADN000001
C6011
630V
3900p
R6011
15
R6012
15
ZA6001
K4CD01000013
ZA6002
K4CD01000013
ZA6003
K4CD01000013
ZA6004
K4CD01000013
TO
PANEL
SUSTAIN
ELECTRODE
SS41
SIDE
TERM
Q6002
B1JADN000001
C6012
630V
5600p
R6013
15
R6014
15
Q6003
B1JADN000001
R6015
15
R6016
15
D6015
B0ECHP000003
L6018
J0JJC0000021
Q6011
2SD21850RL
Q6012
2SB1073001TV
D6001
B0HBSN000008
IC6001
C0ZBZ0000895
FET DRIVER
NC
HIN
LIN
GND
HO
VB
VS
VCC
LO
R6004
150
R6005
150
R6024
10
R6030
10k
R6023
10k
C6031
25V
4.7u
C6043
25V
4.7u
R6027
100
R6028
100
C6032
25V
4.7u
R6026
10
Q6006
B1JADN000001
C6015
630V
5600p
R6019
15
R6021
15
Q6007
B1JADN000001
C6016
630V
3900p
R6020
15
R6022
15
Q6013
2SD21850RL
R6025
10k
R6029
10k
Q6014
2SB1073001TV
Q6008
B1JADN000001
R6034
15
R6035
15
D6002
B0HBSN000008
SS42
D6020
B0HBSN000008
C6060
630V
470p
C6061
630V
D6021
B0ECHP000003
L6011
0.6u
L6012
0.6u
L6013
0.6u
175V
L6014
1u
L6015
1u
D6022
B0HBSN000008
SS43
R6078
0.22
R6077
0.22
TPSS1
R6062
220k
R6063
220k
IC6003
C0ZBZ0000895
R6006
100
C6058
25V
1u
D6054
B0ECHP000003
L6022
J0JJC0000021
R6007
100
C6044
25V
4.7u
R6008
100k
R6009
100k
D6057
B0ECHP000003
D6052
B0JCME000037
Q6041
B1DFKM000002
R6079
100
L6042
J0JJC0000021
L6043
J0JJC0000021
R6080
100
D6053
B0JCME000037
Q6042
B1DFKM000002
R6082
100
C6049
25V
4.7u
R6083
100
TP32
C6048
25V
220u
TPVe
D6051
B0ECHP000003
L6050
G0ZZ00002183
Q6051
2SD1263AP0LB
R6057
47
D6058
MA2J11100L
R6069
49.9k
R6070
48.7k
R6074
48.7k
R6068
12k
R6067
4.7k
Q6052
2SC1473AEA
D6059
MA2J11100L
R6061
1k
D6062
MA2J11100L
R6081
2.2k
SS44
D6070
MA2J11100L
R6088
10k
C6057
25V
4.7u
D6055
B0JCME000037
R6092
150
IC6004
C0ZBZ0000735
FET DRIVER
Vcc
In
Gnd
Lo
Vb
Ho
Vs
NC
C6046
25V
4.7u
R6085
47
Q6045
2SK326800L
C6047
200V
150u
R6084
220k
Q6046
2SK373100L
R6087
100
R6086
47
R6121
10k
R6118
39k
D6066
MAZ83300ML
D6067
MAZ83300ML
R6119
39k
D6065
LNJ301MPUJA
(GREEN LED)
R6120
7.5k
IC6011
C0DBEMB00002
VE GEN.
REF
ANODE
CATHODE
VR6074
10k
R6076
0
R6073
2.55k
TP25
TP24
TP26
TP27
TP28
TP29
TP30
TP31

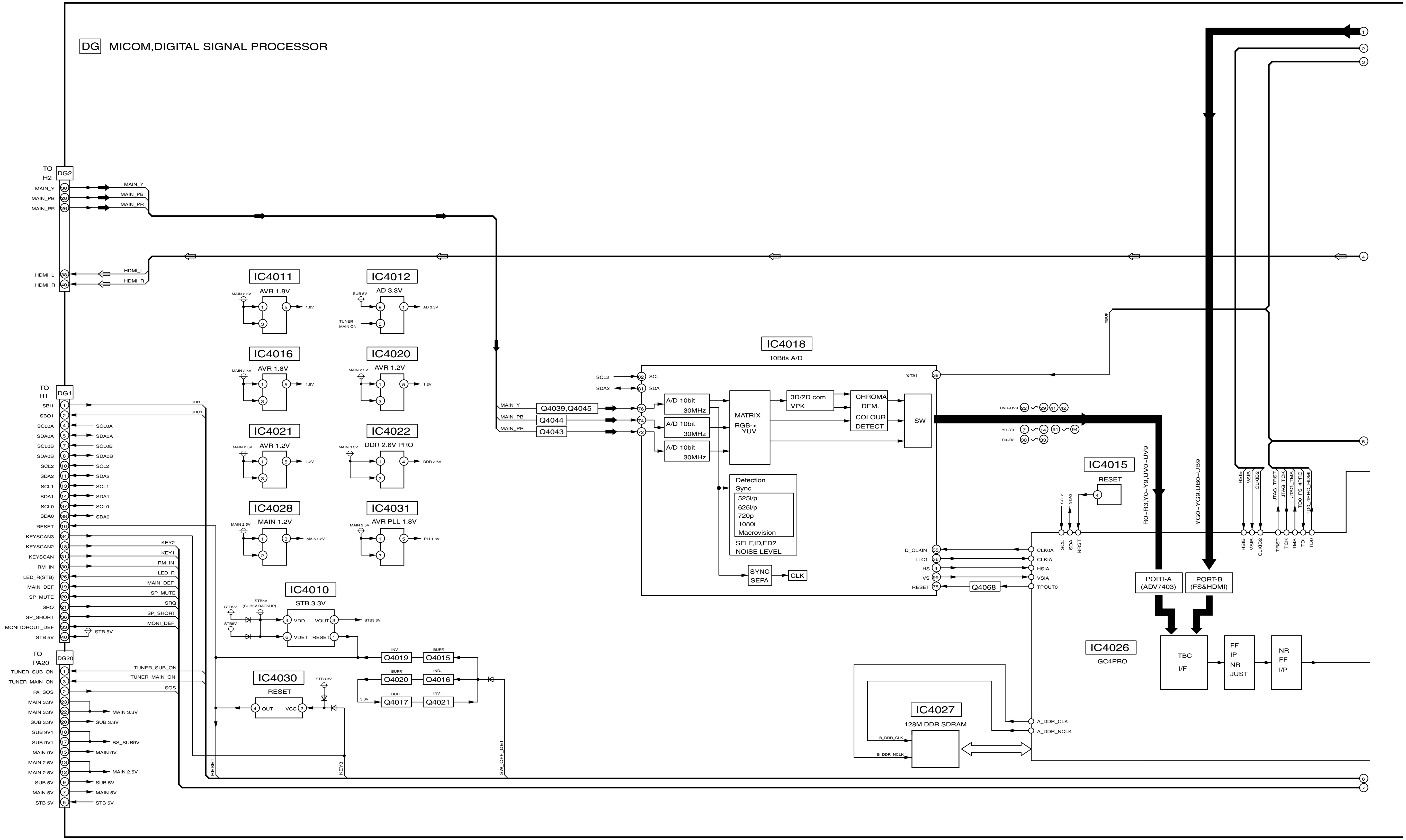
TH-42PM50U
SS-Board Schematic Diagram

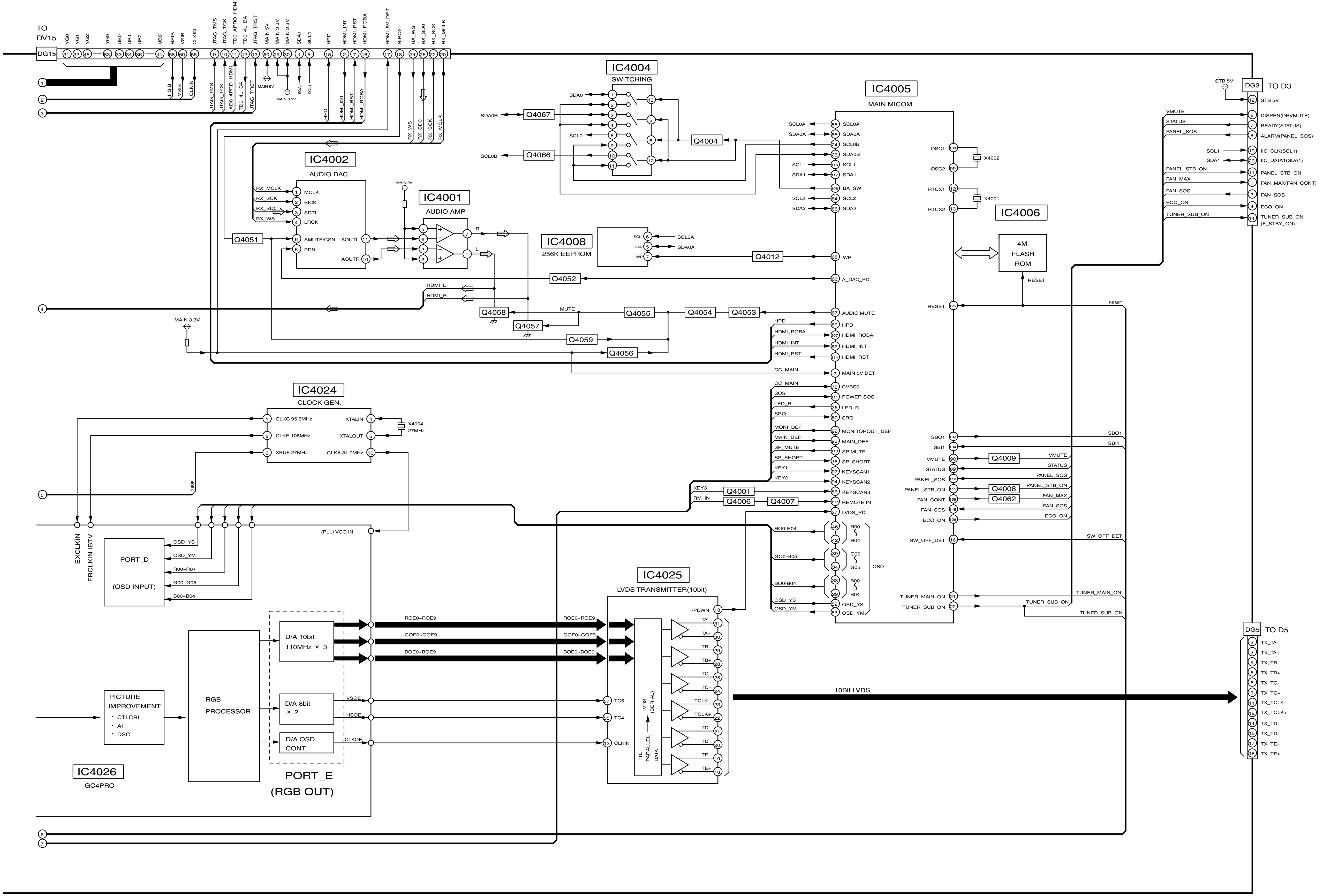
5 6 7 8


TO D34
C11
+5V(P)
5V DET
OOED
CLRD
PCD2
LED
NCLKR
CLKR
DRVRST
Data
18bit
C1
DATA DRIVER
(LEFT)
IC7101
CLOCK
VCC
DE1
DE2
IC7104
BUFFER
IC7106
BUFFER
IC7105
BUFFER
8bit
2bit
Vda
C12
C22
CB1
D1
CLK
CB2
D2
CB3
D3
PANEL DATA DRIVER
TO
SS23
C23
SUSTAIN
NUEL
UEH
USL
USH
UML
UMH
DRY_SOS9
TO
D33
C21
UMH
DRY_SOS9
Data
24bit
C2
DATA DRIVER
(RIGHT)
IC7201
CLOCK
PCD1
NCLKL
CLKL
IC7204
BUFFER
IC7203
BUFFER
IC7202
BUFFER
6bit
CB4
D4
CB5
D5
CB6
D6
CB7
D7
PANEL DATA DRIVER

TH-42PM50U
C1 and C2-Board Block Diagram

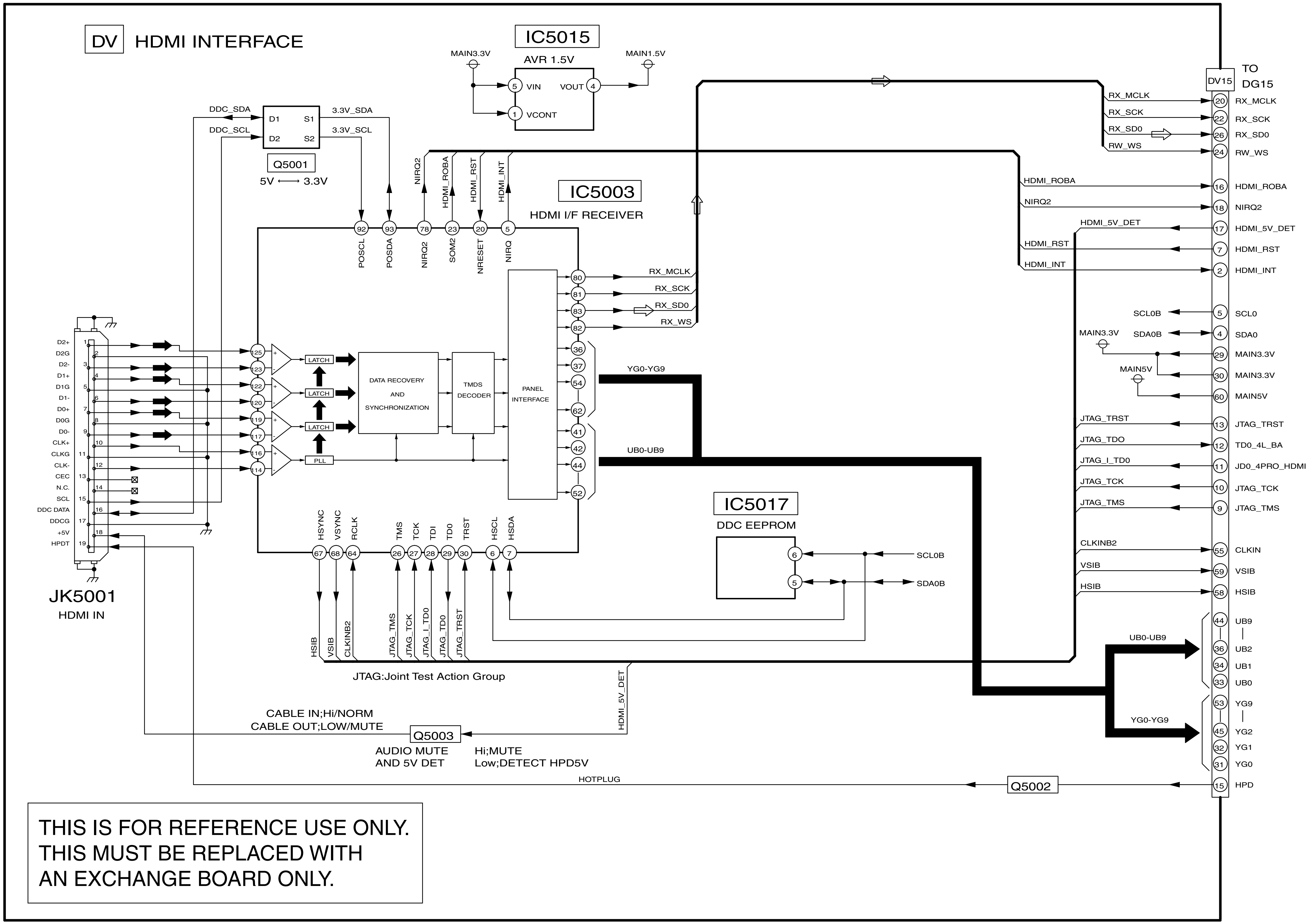

D DIGITAL SIGNAL PROCESSOR
FORMAT CONVERTER,
PLASMA AI
SUB-FIELD PROCESSOR
IC9300
FORMAT CONVERTER/RGB PROCESSOR
I/P CONVERTER
FORMAT CONVERTER
CTI/TINT COLOR CONTRAST WB-ADJ st-r
PLASMA AI/SUB FIELD PROCESSOR
NEW PLASMA AI
SUB-FIELD PROCESSOR
DATA DRIVER
IC9302
DDR SDRAM(128M)
IC9200
CLOCK GENE.
X9200
IC9303
32M FLASH MEMORY
IC9301
RESET
IC9500
FPGA/SYNC/OSD/DISCHARGE CONTROL
LVDS Low Voltage Differential Signaling RECEIVER
R0 G0 B0 VD HD DCK
R9 G9 B9
PICTURE OUTPUT
DISCHARGE CONTROL
FPGA CONTROL
OSD
R,G,B,HD,VD,CK
CONTROL
DATA POWER FEEDBACK
DATA DRIVER
SS PULSE
SCAN OUT SC PULSE
IC9503
LEVEL CONVERTER
3.3V → 5V
IC9504
LEVEL CONVERTER
IC9502
LEVEL CONVERTER
IC9005,06
LEVEL CONVERTER
IC9008
AVR STB3.3V
IC9001
EEPROM
IC9003
MICOM
IC9004
RESET
IC9007
PROM(FPGA)
IC9702
DC_DC CONV.
Q9702
Q9701
IC9700
AVR 2.5V
TO DG5
TO DG3
FOR FACTORY USE
TO P25
TO C11
TO C21
TO SC20
TO K3
NOT USED
D5
D3
D4
D25
D6
D34
D33
D20
D8
DATA L
L-DOWN
DATA L TIMING
DATA DRIVE
5V_DET
P5V
DATA POWER FEED BACK
DRVRST
DATA R
R-DOWN
DATA R TIMING
SUSTAIN DATA
DRV_SOS8
SCAN DATA
DRV_SOS6
DRV_SOS7
LED_G
LED_R
REMOCON
STB5V


DG MICOM,DIGITAL SIGNAL PROCESSOR
TO H2 DG2
MAIN_Y 30
MAIN_PB 28
MAIN_PR 26
HDMI_L 38
HDMI_R 40
MAIN_Y
MAIN_PB
MAIN_PR
HDMI_L
HDMI_R
TO H1 DG1
SBI1 1
SBO1 2
SCL0A 4
SDA0A 5
SCL0B 7
SDA0B 8
SCL2 10
SDA2 11
SCL1 13
SDA1 14
SCL0 37
SDA0 38
RESET 16
KEYSCAN3 34
KEYSCAN2 18
KEYSCAN 31
RM_IN 30
LED_R(STB) 26
MAIN_DEF 19
SP_MUTE 20
SRQ 21
SP_SHORT 36
MONITOROUT_DEF 33
STB 5V 40
SBI1
SBO1
SCL0A
SDA0A
SCL0B
SDA0B
SCL2
SDA2
SCL1
SDA1
SCL0
SDA0
KEY2
KEY1
RM_IN
LED_R
MAIN_DEF
SP_MUTE
SRQ
SP_SHORT
MONI_DEF
STB 5V
TO PA20 DG20
TUNER_SUB_ON 1
TUNER_MAIN_ON 3
PA_SOS 2
MAIN 3.3V 23
MAIN 3.3V 22
SUB 3.3V 20
SUB 9V1 18
SUB 9V1 17
MAIN 9V 15
MAIN 2.5V 13
MAIN 2.5V 12
SUB 5V 9
MAIN 5V 7
STB 5V 5
TUNER_SUB_ON
TUNER_MAIN_ON
SOS
MAIN 3.3V
SUB 3.3V
BS_SUB9V
MAIN 9V
MAIN 2.5V
SUB 5V
MAIN 5V
STB 5V
RESET
KEY3
SW_OFF_DET
IC4011
AVR 1.8V
MAIN 2.5V
1.8V
IC4012
AD 3.3V
SUB 5V
TUNER MAIN ON
AD 3.3V
IC4016
AVR 1.8V
MAIN 2.5V
1.8V
IC4020
AVR 1.2V
MAIN 2.5V
1.2V
IC4021
AVR 1.2V
MAIN 2.5V
1.2V
IC4022
DDR 2.6V PRO
MAIN 3.3V
DDR 2.6V
IC4028
MAIN 1.2V
MAIN 2.5V
MAIN1.2V
IC4031
AVR PLL 1.8V
MAIN 2.5V
PLL1.8V
IC4010
STB 3.3V
STB5V
STB5V (SUB5V BACKUP)
STB5V
VDD
VOUT
VDET
RESET
STB3.3V
INV. Q4019
BUFF. Q4015
BUFF. Q4020
IND. Q4016
BUFF. Q4017
INV. Q4021
3.3V
IC4030
RESET
STB3.3V
OUT
VCC
MAIN_Y
MAIN_PB
MAIN_PR
Q4039,Q4045
Q4044
Q4043
IC4018
10Bits A/D
SCL2
SDA2
SCL
SDA
XTAL
A/D 10bit 30MHz
A/D 10bit 30MHz
A/D 10bit 30MHz
MATRIX
RGB-> YUV
3D/2D com VPK
CHROMA DEM.
COLOUR DETECT
SW
Detection
Sync
525i/p
625i/p
720p
1080i
Macrovision
SELF,ID,ED2
NOISE LEVEL
SYNC SEPA
CLK
D_CLKIN
LLC1
HS
VS
RESET
Q4068
XBUF
UV0~UV9 22 ~ 29 41 42
Y0~Y9 7 ~ 14 91 ~ 94
R0~R3 30 ~ 33
IC4015
RESET
SCL2
SDA2
SCL
SDA
NRST
CLK0A
CLKIA
HSIA
VSIA
TPOUT0
R0~R3,Y0~Y9,UV0~UV9
YG0~YG9.UB0~UB9
HSIB
VSIB
CLKIB2
JTAG_TRST
JTAG_TCK
JTAG_TMS
TD0_FS_4PRO
TD0_4PRO_HDMI
HSIB
VSIB
CLKIB2
TRST
TCK
TMS
TDI
TD0
PORT-A (ADV7403)
PORT-B (FS&HDMI)
IC4026
GC4PRO
TBC
I/F
FF
IP
NR
JUST
NR
FF
I/P
IC4027
128M DDR SDRAM
A_DDR_CLK
A_DDR_NCLK
B_DDR_CLK
B_DDR_NCLK
1
2
3
4
5
6
7

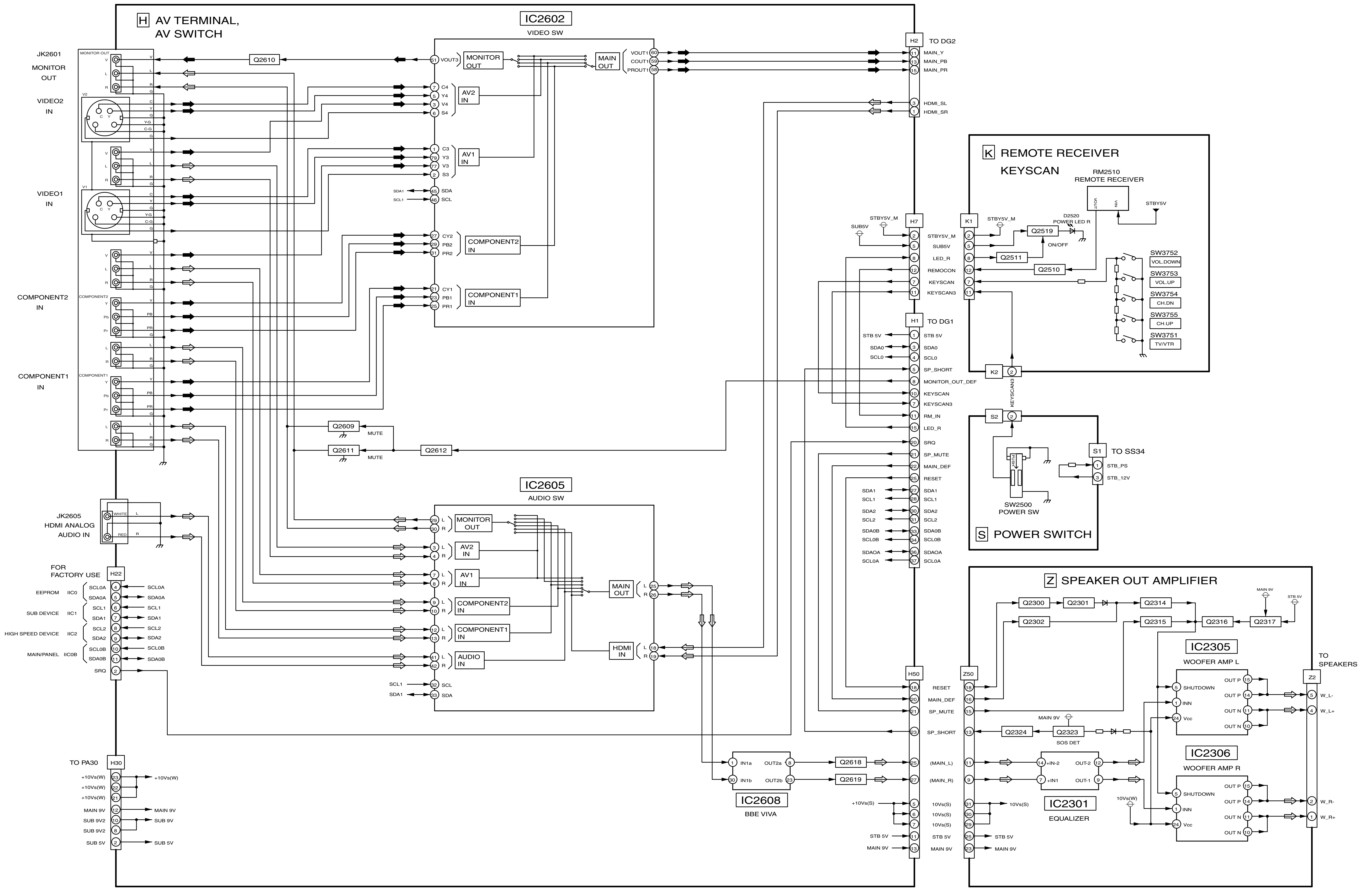

TO DV15
DG15
YG0
YG1
YG2
YG9
UB0
UB1
UB2
UB9
HSIB
VSIB
CLKIN
JTAG_TMS
JTAG_TCK
TD0_APRO_HDMI
TD0_4L_BA
JTAG_TRST
MAIN 5V
MAIN 3.3V
SDA1
SCL1
HPD
HDMI_INT
HDMI_RST
HDMI_ROBA
HDMI_5V_DET
NIRQ2
RX_WS
RX_SD0
RX_SCK
RX_MCLK
IC4004
SWITCHING
SDA0
SDA0B
SCL0
SCL0B
Q4067
Q4066
Q4004
IC4005
MAIN MICOM
SCL0A
SDA0A
SCL0B
SDA0B
SCL1
SDA1
BA_SW
SCL2
SDA2
OSC1
OSC2
X4002
RTCX1
RTCX2
X4001
IC4006
4M FLASH ROM
RESET
IC4002
AUDIO DAC
RX_MCLK
RX_SCK
RX_SD0
RX_WS
MCLK
BICK
SDTI
LRCK
SMUTE/CSN
PDN
AOUTL
AOUTR
Q4051
MAIN 9V
IC4001
AUDIO AMP
R
L
IC4008
256K EEPROM
SCL
SDA
WP
Q4012
Q4052
A_DAC_PD
HDMI_L
HDMI_R
Q4058
MUTE
Q4055
Q4054
Q4053
AUDIO MUTE
Q4057
MAIN 3.3V
Q4059
Q4056
HPD
HDMI_ROBA
HDMI_INT
HDMI_RST
CC_MAIN
MAIN 5V DET
CVBS0
POWER SOS
LED_R
SRQ
MONITOROUT_DEF
MAIN_DEF
SP MUTE
SP_SHORT
KEYSCAN1
KEYSCAN2
KEYSCAN3
REMOTE IN
LVDS_PD
SOS
MONI_DEF
SP_MUTE
KEY1
KEY2
KEY3
RM_IN
Q4001
Q4006
Q4007
R00-R04
G00-G05
B00-B04
OSD_YS
OSD_YM
OSD
IC4024
CLOCK GEN.
CLKC 95.5MHz
CLKE 108MHz
XBUF 27MHz
XTALIN
XTALOUT
CLKA 81.0MHz
X4004 27MHz
XBUF
(PLL) VCO IN
EXCLKIN
FRCLKIN IBTV
PORT_D
(OSD INPUT)
OSD_YS
OSD_YM
R00~R04
G00~G05
B00~B04
PICTURE IMPROVEMENT
・CTI,CRI
・AI
・DSC
RGB PROCESSOR
D/A 10bit 110MHz × 3
D/A 8bit × 2
D/A OSD CONT
PORT_E (RGB OUT)
IC4026
GC4PRO
ROE0~ROE9
GOE0~GOE9
BOE0~BOE9
VSOE
HSOE
CLKOE
IC4025
LVDS TRANSMITTER(10bit)
/PDWN
TC5
TC4
CLKIN
TTL PARALLEL DATA
LVDS (SERIAL)
TA-
TA+
TB-
TB+
TC-
TC+
TCLK-
TCLK+
TD-
TD+
TE-
TE+
10Bit LVDS
SBO1
SBI1
VMUTE
STATUS
PANEL_SOS
PANEL_STB_ON
FAN_CONT
FAN_SOS
ECO_ON
Q4009
Q4008
Q4062
FAN_MAX
SW_OFF_DET
TUNER_MAIN_ON
TUNER_SUB_ON
STB 5V
DG3
TO D3
STB 5V
DISPEN(DRVMUTE)
READY(STATUS)
ALARM(PANEL_SOS)
IIC_CLK(SCL1)
IIC_DATA1(SDA1)
PANEL_STB_ON
FAN_MAX(FAN_CONT)
FAN_SOS
ECO_ON
TUNER_SUB_ON (F_STBY_ON)
DG5
TO D5
TX_TA-
TX_TA+
TX_TB-
TX_TB+
TX_TC-
TX_TC+
TX_TCLK-
TX_TCLK+
TX_TD-
TX_TD+
TX_TE-
TX_TE+

TH-42PM50U
DG-Board (2 of 2) Block Diagram

TH-42PM50U
DG-Board (2 of 2) Block Diagram


DV
HDMI INTERFACE
IC5015
AVR 1.5V
MAIN3.3V
MAIN1.5V
VIN
VOUT
VCONT
DDC_SDA
DDC_SCL
D1
D2
S1
S2
3.3V_SDA
3.3V_SCL
Q5001
5V ⟷ 3.3V
NIRQ2
HDMI_ROBA
HDMI_RST
HDMI_INT
IC5003
HDMI I/F RECEIVER
POSCL
POSDA
NIRQ2
SOM2
NRESET
NIRQ
RX_MCLK
RX_SCK
RX_SD0
RX_WS
LATCH
LATCH
LATCH
PLL
DATA RECOVERY AND SYNCHRONIZATION
TMDS DECODER
PANEL INTERFACE
YG0-YG9
UB0-UB9
HSYNC
VSYNC
RCLK
TMS
TCK
TDI
TD0
TRST
HSCL
HSDA
HSIB
VSIB
CLKINB2
JTAG_TMS
JTAG_TCK
JTAG_I_TD0
JTAG_TD0
JTAG_TRST
JTAG:Joint Test Action Group
IC5017
DDC EEPROM
SCL0B
SDA0B
D2+
D2G
D2-
D1+
D1G
D1-
D0+
D0G
D0-
CLK+
CLKG
CLK-
CEC
N.C.
SCL
DDC DATA
DDCG
+5V
HPDT
JK5001
HDMI IN
CABLE IN;Hi/NORM
CABLE OUT;LOW/MUTE
Q5003
AUDIO MUTE AND 5V DET
Hi;MUTE
Low;DETECT HPD5V
HDMI_5V_DET
HOTPLUG
Q5002
DV15
TO DG15
RX_MCLK
RX_SCK
RX_SD0
RW_WS
HDMI_ROBA
NIRQ2
HDMI_5V_DET
HDMI_RST
HDMI_INT
SCL0
SDA0
MAIN3.3V
MAIN3.3V
MAIN5V
JTAG_TRST
TD0_4L_BA
JD0_4PRO_HDMI
JTAG_TCK
JTAG_TMS
CLKIN
VSIB
HSIB
UB9
UB2
UB1
UB0
YG9
YG2
YG1
YG0
HPD
JTAG_TRST
JTAG_TDO
JTAG_I_TD0
JTAG_TCK
JTAG_TMS
CLKINB2
VSIB
HSIB
MAIN3.3V
MAIN5V
SCL0B
SDA0B

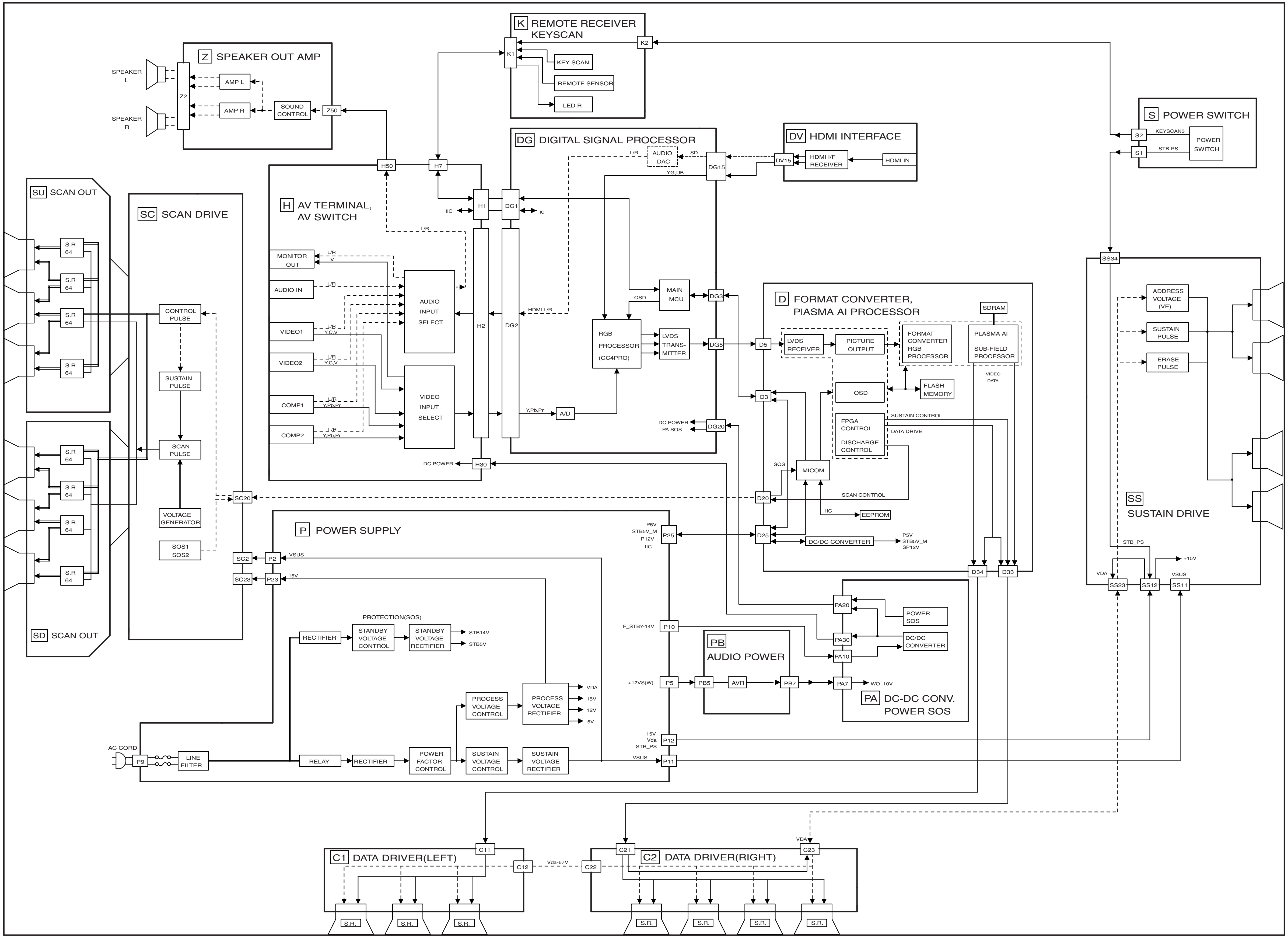
THIS IS FOR REFERENCE USE ONLY.
THIS MUST BE REPLACED WITH
AN EXCHANGE BOARD ONLY.



H AV TERMINAL, AV SWITCH
IC2602
VIDEO SW
JK2601
MONITOR OUT
VIDEO2 IN
VIDEO1 IN
COMPONENT2 IN
COMPONENT1 IN
Q2610
MONITOR OUT
MAIN OUT
VOUT1
COUT1
PROUT1
VOUT3
AV2 IN
AV1 IN
COMPONENT2 IN
COMPONENT1 IN
C4
Y4
V4
S4
C3
Y3
V3
S3
SDA
SCL
SDA1
SCL1
CY2
PB2
PR2
CY1
PB1
PR1
Q2609
Q2611
Q2612
MUTE
H2
TO DG2
MAIN_Y
MAIN_PB
MAIN_PR
HDMI_SL
HDMI_SR
K REMOTE RECEIVER
KEYSCAN
RM2510
REMOTE RECEIVER
STBY5V
STBY5V_M
D2520
POWER LED R
Q2519
ON/OFF
Q2511
Q2510
SW3752
VOL.DOWN
SW3753
VOL.UP
SW3754
CH.DN
SW3755
CH.UP
SW3751
TV/VTR
K1
K2
KEYSCAN3
H7
SUB5V
STBY5V_M
SUB5V
LED_R
REMOCON
KEYSCAN
KEYSCAN3
H1
TO DG1
STB 5V
SDA0
SCL0
SP_SHORT
MONITOR_OUT_DEF
KEYSCAN
KEYSCAN3
RM_IN
LED_R
SRQ
SP_MUTE
MAIN_DEF
RESET
SDA1
SCL1
SDA2
SCL2
SDA0B
SCL0B
SDA0A
SCL0A
S2
S1
TO SS34
STB_PS
STB_12V
SW2500
POWER SW
S POWER SWITCH
IC2605
AUDIO SW
JK2605
HDMI ANALOG AUDIO IN
WHITE
RED
MONITOR OUT
AV2 IN
AV1 IN
COMPONENT2 IN
COMPONENT1 IN
AUDIO IN
MAIN OUT
HDMI IN
FOR FACTORY USE
H22
EEPROM IIC0
SUB DEVICE IIC1
HIGH SPEED DEVICE IIC2
MAIN/PANEL IIC0B
SCL0A
SDA0A
SCL1
SDA1
SCL2
SDA2
SCL0B
SDA0B
SRQ
IC2608
BBE VIVA
IN1a
IN1b
OUT2a
OUT2b
Q2618
Q2619
TO PA30
H30
+10Vs(W)
MAIN 9V
SUB 9V2
SUB 9V
SUB 5V
H50
RESET
MAIN_DEF
SP_MUTE
SP_SHORT
(MAIN_L)
(MAIN_R)
+10Vs(S)
10Vs(S)
STB 5V
MAIN 9V
Z SPEAKER OUT AMPLIFIER
Z50
Q2300
Q2301
Q2314
Q2302
Q2315
Q2316
Q2317
MAIN 9V
STB 5V
IC2305
WOOFER AMP L
SHUTDOWN
INN
Vcc
OUT P
OUT N
Q2324
Q2323
SOS DET
IC2301
EQUALIZER
+IN-2
+IN1
OUT-2
OUT-1
IC2306
WOOFER AMP R
10Vs(W)
TO SPEAKERS
Z2
W_L-
W_L+
W_R-
W_R+

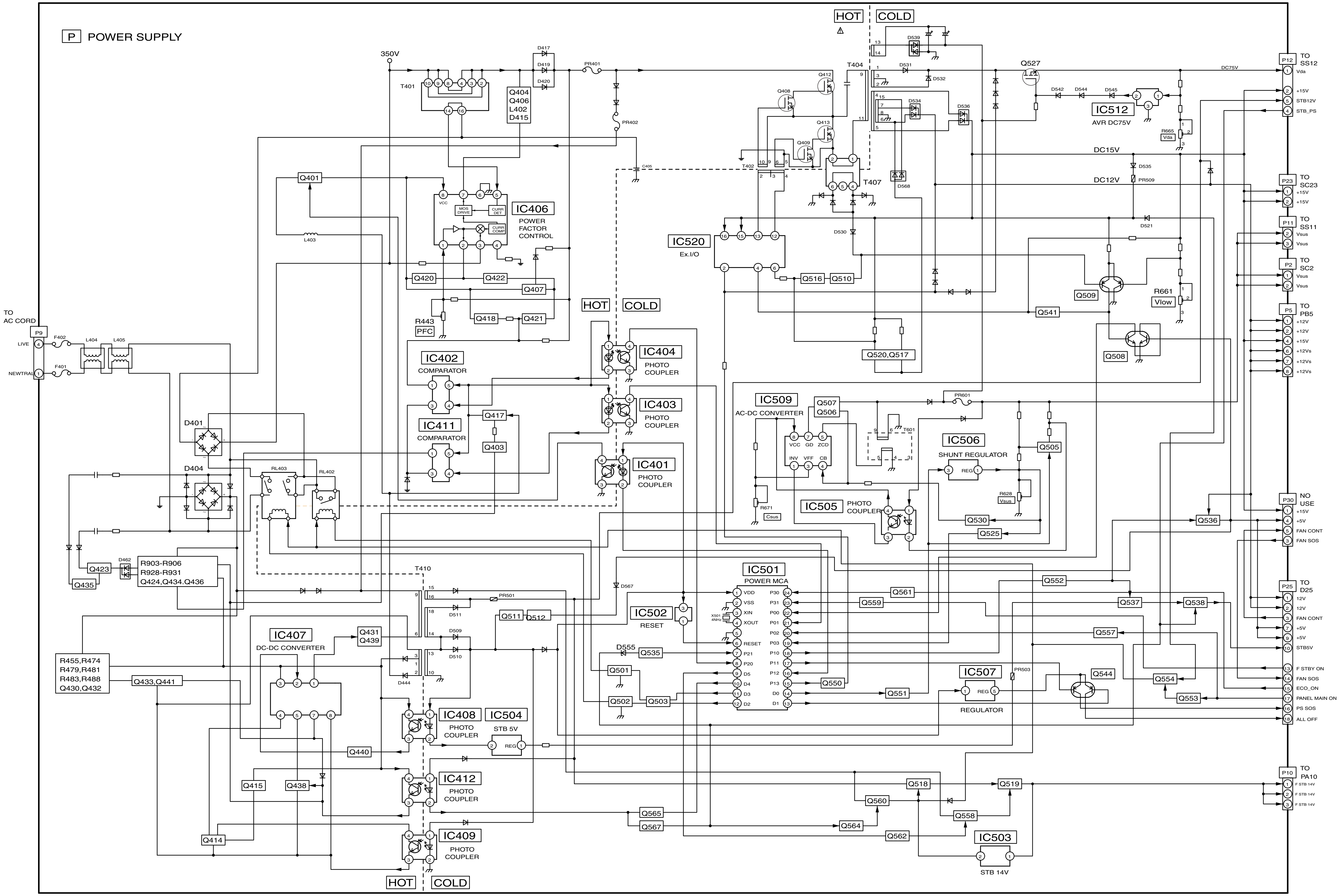
TH-42PM50U
H, K, S and Z-Board Block Diagram

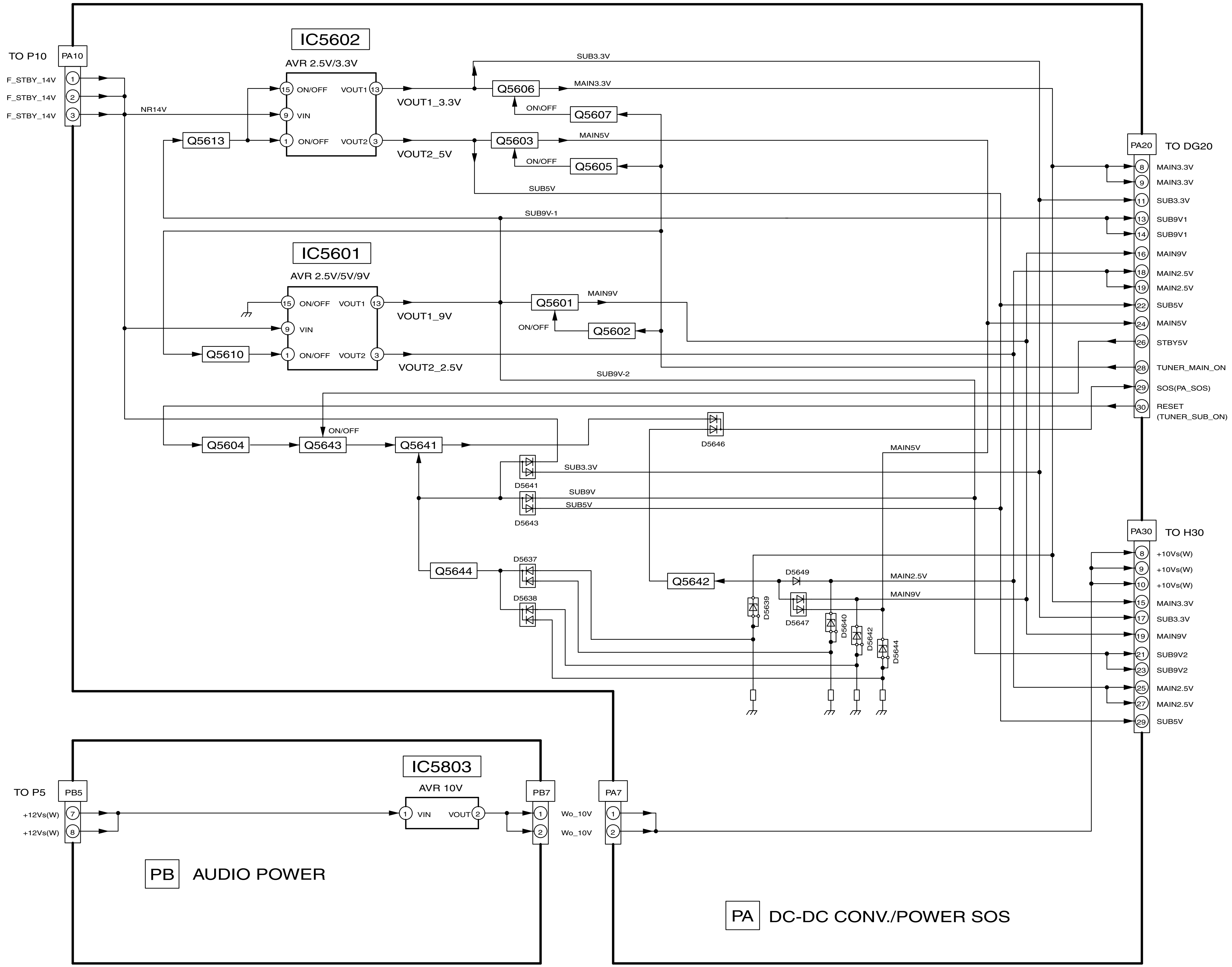
TH-42PM50U
H, K, S and Z-Board Block Diagram

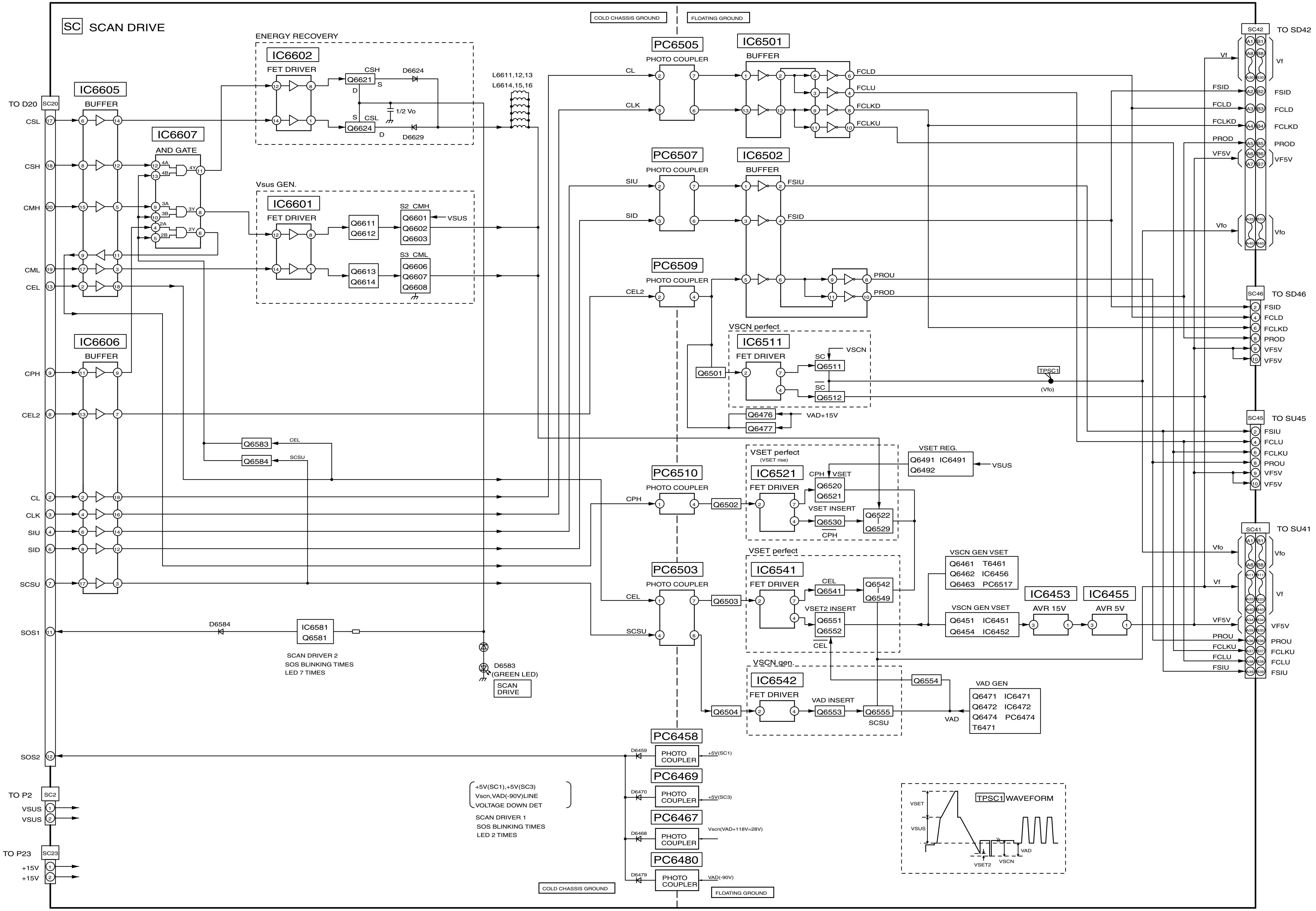

K REMOTE RECEIVER KEYSCAN
K1
K2
KEY SCAN
REMOTE SENSOR
LED R
Z SPEAKER OUT AMP
SPEAKER L
SPEAKER R
Z2
AMP L
AMP R
SOUND CONTROL
Z50
S POWER SWITCH
S2
S1
KEYSCAN3
STB-PS
POWER SWITCH
DG DIGITAL SIGNAL PROCESSOR
L/R
AUDIO DAC
SD
DG15
YG,UB
DV HDMI INTERFACE
DV15
HDMI I/F RECEIVER
HDMI IN
SU SCAN OUT
S.R 64
SC SCAN DRIVE
CONTROL PULSE
SUSTAIN PULSE
SCAN PULSE
VOLTAGE GENERATOR
SOS1 SOS2
SC20
SC2
SC23
SD SCAN OUT
H AV TERMINAL, AV SWITCH
H50
H7
H1
H2
H30
IIC
DG1
DG2
MONITOR OUT
AUDIO IN
VIDEO1
VIDEO2
COMP1
COMP2
L/R
V
Y,C,V
Y,Pb,Pr
AUDIO INPUT SELECT
VIDEO INPUT SELECT
DC POWER
MAIN MCU
OSD
HDMI L/R
RGB PROCESSOR (GC4PRO)
LVDS TRANS-MITTER
DG3
DG5
DG20
Y,Pb,Pr
A/D
DC POWER
PA SOS
D FORMAT CONVERTER, PIASMA AI PROCESSOR
SDRAM
D5
D3
D20
D25
D34
D33
LVDS RECEIVER
PICTURE OUTPUT
FORMAT CONVERTER RGB PROCESSOR
PLASMA AI SUB-FIELD PROCESSOR
VIDEO DATA
OSD
FLASH MEMORY
FPGA CONTROL
DISCHARGE CONTROL
SUSTAIN CONTROL
DATA DRIVE
SOS
MICOM
SCAN CONTROL
IIC
EEPROM
DC/DC CONVERTER
P5V
STB5V_M
SP12V
SS SUSTAIN DRIVE
SS34
ADDRESS VOLTAGE (VE)
SUSTAIN PULSE
ERASE PULSE
STB_PS
+15V
VDA
VSUS
SS23
SS12
SS11
P POWER SUPPLY
P2
P23
VSUS
15V
P25
P5V
STB5V_M
P12V
IIC
PROTECTION(SOS)
RECTIFIER
STANDBY VOLTAGE CONTROL
STANDBY VOLTAGE RECTIFIER
STB14V
STB5V
PROCESS VOLTAGE CONTROL
PROCESS VOLTAGE RECTIFIER
VDA
15V
12V
5V
AC CORD
P9
LINE FILTER
RELAY
RECTIFIER
POWER FACTOR CONTROL
SUSTAIN VOLTAGE CONTROL
SUSTAIN VOLTAGE RECTIFIER
F_STBY-14V
P10
+12VS(W)
P5
15V
Vda
STB_PS
P12
VSUS
P11
PB AUDIO POWER
PB5
AVR
PB7
PA DC-DC CONV. POWER SOS
PA20
PA30
PA10
PA7
POWER SOS
DC/DC CONVERTER
WO_10V
C1 DATA DRIVER(LEFT)
C11
C12
Vda-67V
C22
C21
C23
VDA
C2 DATA DRIVER(RIGHT)
S.R.

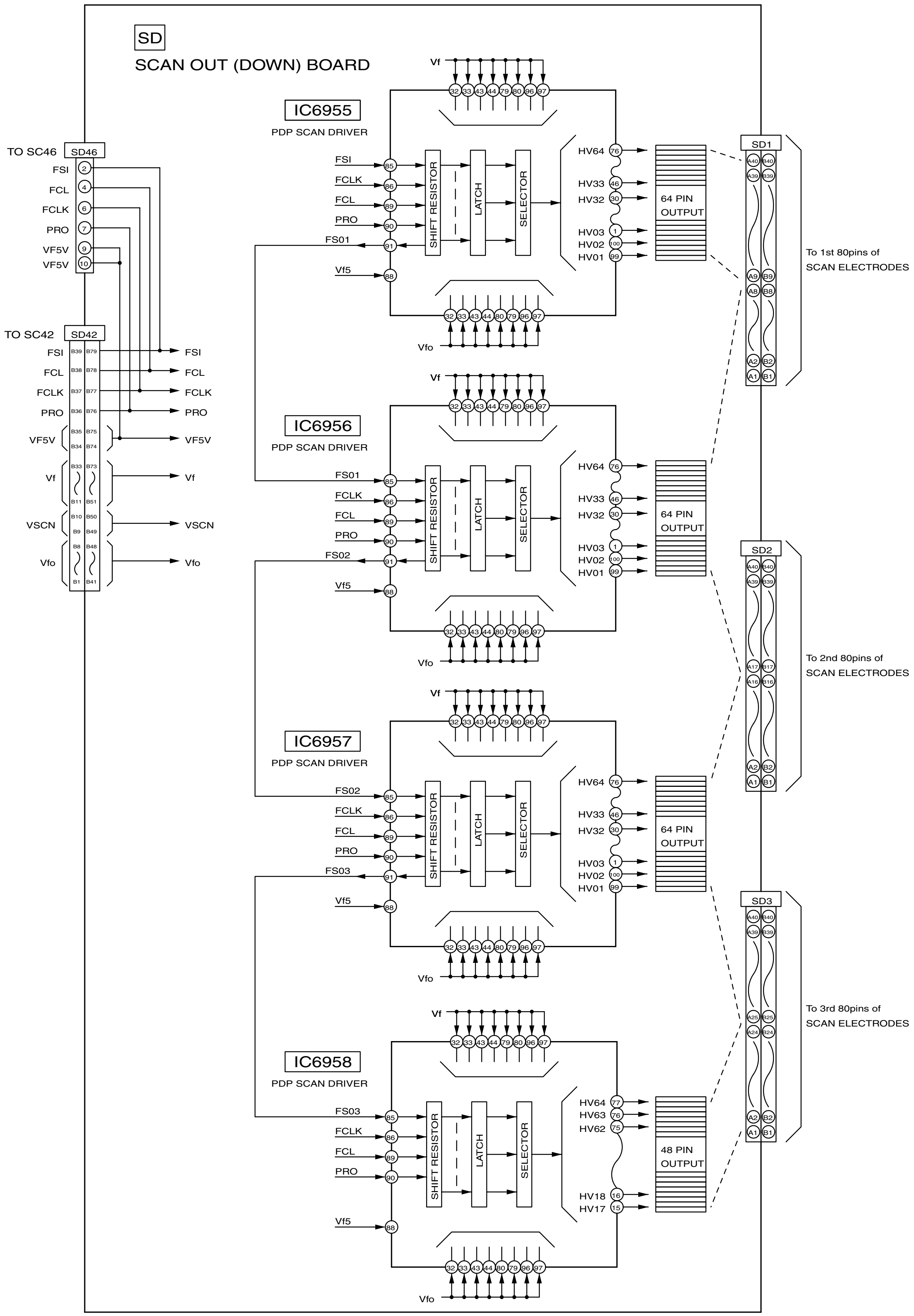
TH-42PM50U Main Block Diagram

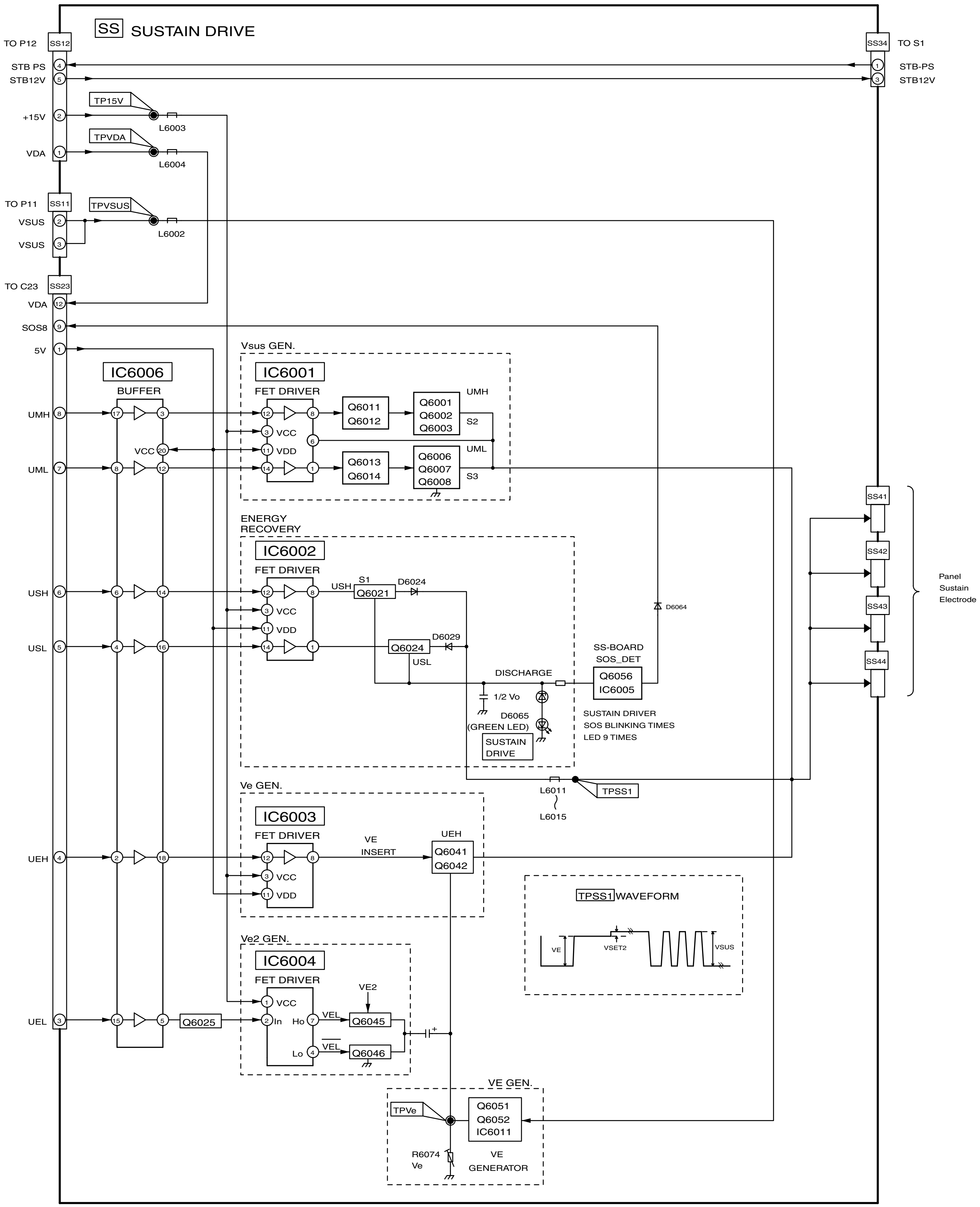
TH-42PM50U Main Block Diagram


P POWER SUPPLY
HOT
COLD
350V
T401
D417
D419
D420
Q404
Q406
L402
D415
PR401
PR402
C405
Q401
L403
IC406
POWER FACTOR CONTROL
VCC
MOS DRIVE
CURR DET
CURR COMP
Q420
Q422
Q407
R443
PFC
Q418
Q421
TO AC CORD
P9
LIVE
NEWTRAL
F402
F401
L404
L405
D401
D404
IC402
COMPARATOR
IC411
COMPARATOR
Q417
Q403
IC404
PHOTO COUPLER
IC403
PHOTO COUPLER
IC401
PHOTO COUPLER
RL403
RL402
Q423
Q435
D462
R903-R906
R928-R931
Q424,Q434,Q436
T410
D511
D509
D510
D444
PR501
Q511
Q512
IC407
DC-DC CONVERTER
Q431
Q439
R455,R474
R479,R481
R483,R488
Q430,Q432
Q433,Q441
Q440
IC408
PHOTO COUPLER
IC504
STB 5V
REG
IC412
PHOTO COUPLER
IC409
PHOTO COUPLER
Q415
Q438
Q414
Q565
Q567
T404
Q412
Q408
Q413
Q409
T402
T407
D539
D531
D532
D534
D536
D568
D530
IC520
Ex.I/O
Q516
Q510
Q520,Q517
Q527
DC75V
D542
D544
D545
IC512
AVR DC75V
R665
Vda
DC15V
D535
DC12V
PR509
D521
Q509
R661
Vlow
Q541
Q508
IC509
AC-DC CONVERTER
Q507
Q506
VCC
GD
ZCD
INV
VFF
CB
T601
PR601
IC506
SHUNT REGULATOR
Q505
R628
Vsus
R671
Csus
IC505
PHOTO COUPLER
Q530
Q525
Q536
IC501
POWER MCA
VDD
VSS
XIN
XOUT
RESET
P21
P20
D5
D4
D3
D2
P30
P31
P00
P01
P02
P03
P10
P11
P12
P13
D0
D1
X501 4MHz
IC502
RESET
D567
D555
Q535
Q501
Q502
Q503
Q552
Q561
Q559
Q537
Q538
Q557
Q550
Q551
IC507
REGULATOR
PR503
Q544
Q554
Q553
Q518
Q519
Q560
Q558
Q564
Q562
IC503
STB 14V
P12
TO SS12
Vda
+15V
STB12V
STB_PS
P23
TO SC23
+15V
+15V
P11
TO SS11
Vsus
Vsus
P2
TO SC2
Vsus
Vsus
P5
TO PB5
+12V
+12V
+15V
+12Vs
+12Vs
+12Vs
P30
NO USE
+15V
+5V
FAN CONT
FAN SOS
P25
TO D25
12V
12V
FAN CONT
+5V
+5V
STB5V
F STBY ON
FAN SOS
ECO_ON
PANEL MAIN ON
PS SOS
ALL OFF
P10
TO PA10
F STB 14V
F STB 14V
F STB 14V


TO P10
PA10
F_STBY_14V
F_STBY_14V
F_STBY_14V
NR14V
IC5602
AVR 2.5V/3.3V
ON/OFF
VIN
ON/OFF
VOUT1
VOUT2
VOUT1_3.3V
VOUT2_5V
Q5613
SUB3.3V
Q5606
MAIN3.3V
ON\OFF
Q5607
Q5603
MAIN5V
ON/OFF
Q5605
SUB5V
SUB9V-1
IC5601
AVR 2.5V/5V/9V
ON/OFF
VIN
ON/OFF
VOUT1
VOUT2
VOUT1_9V
VOUT2_2.5V
Q5610
Q5601
MAIN9V
ON/OFF
Q5602
SUB9V-2
Q5604
Q5643
ON/OFF
Q5641
D5646
MAIN5V
D5641
SUB3.3V
SUB9V
SUB5V
D5643
Q5644
D5637
D5638
Q5642
D5649
MAIN2.5V
MAIN9V
D5639
D5647
D5640
D5642
D5644
PA20
TO DG20
MAIN3.3V
MAIN3.3V
SUB3.3V
SUB9V1
SUB9V1
MAIN9V
MAIN2.5V
MAIN2.5V
SUB5V
MAIN5V
STBY5V
TUNER_MAIN_ON
SOS(PA_SOS)
RESET
(TUNER_SUB_ON)
PA30
TO H30
+10Vs(W)
+10Vs(W)
+10Vs(W)
MAIN3.3V
SUB3.3V
MAIN9V
SUB9V2
SUB9V2
MAIN2.5V
MAIN2.5V
SUB5V
TO P5
PB5
+12Vs(W)
+12Vs(W)
IC5803
AVR 10V
VIN
VOUT
PB7
Wo_10V
Wo_10V
PA7
PB
AUDIO POWER
PA
DC-DC CONV./POWER SOS

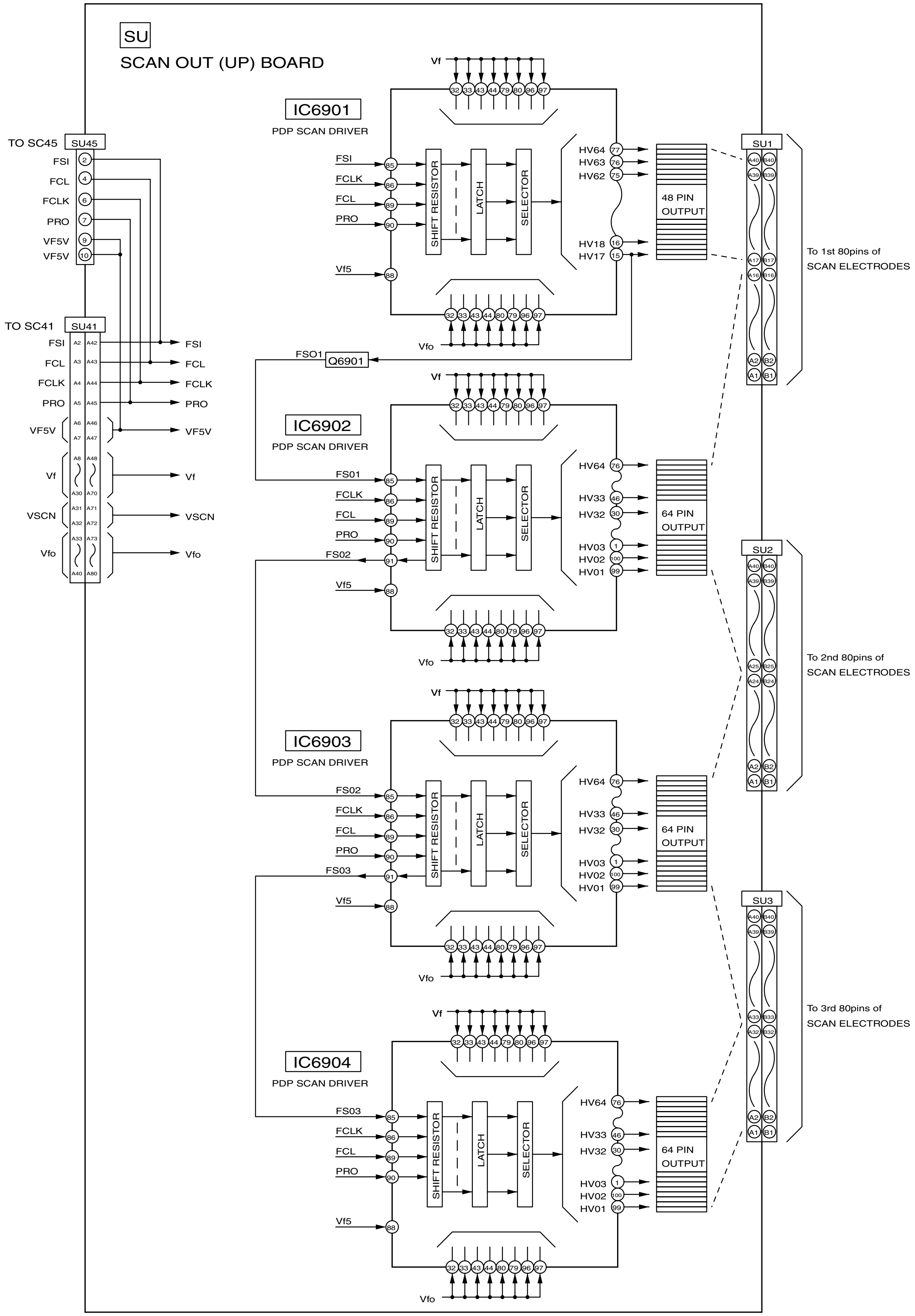

SC SCAN DRIVE
COLD CHASSIS GROUND
FLOATING GROUND
ENERGY RECOVERY
IC6602
FET DRIVER
CSH
Q6621
D6624
Q6624
CSL
D6629
1/2 Vo
L6611,12,13
L6614,15,16
IC6605
BUFFER
TO D20
SC20
CSL
CSH
CMH
CML
CEL
CPH
CEL2
CL
CLK
SIU
SID
SCSU
SOS1
SOS2
IC6607
AND GATE
Vsus GEN.
IC6601
FET DRIVER
Q6611
Q6612
Q6613
Q6614
S2 CMH
Q6601
Q6602
Q6603
VSUS
S3 CML
Q6606
Q6607
Q6608
IC6606
BUFFER
Q6583
Q6584
CEL
SCSU
D6584
IC6581
Q6581
SCAN DRIVER 2
SOS BLINKING TIMES
LED 7 TIMES
D6583
(GREEN LED)
SCAN DRIVE
TO P2
SC2
VSUS
VSUS
TO P23
SC23
+15V
+15V
PC6505
PHOTO COUPLER
CL
CLK
IC6501
BUFFER
FCLD
FCLU
FCLKD
FCLKU
PC6507
PHOTO COUPLER
SIU
SID
IC6502
BUFFER
FSIU
FSID
PROU
PROD
PC6509
PHOTO COUPLER
CEL2
VSCN perfect
IC6511
FET DRIVER
Q6501
SC
Q6511
VSCN
SC
Q6512
TPSC1
(Vfo)
Q6476
Q6477
VAD+15V
PC6510
PHOTO COUPLER
CPH
Q6502
VSET perfect
(VSET rise)
IC6521
FET DRIVER
CPH VSET
Q6520
Q6521
VSET INSERT
Q6530
CPH
Q6522
Q6529
VSET REG.
Q6491 IC6491
Q6492
VSUS
PC6503
PHOTO COUPLER
CEL
SCSU
Q6503
VSET perfect
IC6541
FET DRIVER
CEL
Q6541
Q6542
Q6549
VSET2 INSERT
Q6551
Q6552
CEL
VSCN GEN VSET
Q6461 T6461
Q6462 IC6456
Q6463 PC6517
VSCN GEN VSET
Q6451 IC6451
Q6454 IC6452
IC6453
AVR 15V
IC6455
AVR 5V
VSCN gen.
IC6542
FET DRIVER
Q6504
VAD INSERT
Q6553
Q6555
SCSU
Q6554
VAD
VAD GEN
Q6471 IC6471
Q6472 IC6472
Q6474 PC6474
T6471
PC6458
D6459
PHOTO COUPLER
+5V(SC1)
PC6469
D6470
PHOTO COUPLER
+5V(SC3)
PC6467
D6468
PHOTO COUPLER
Vscn(VAD+118V=28V)
PC6480
D6479
PHOTO COUPLER
VAD(-90V)
+5V(SC1),+5V(SC3)
Vscn,VAD(-90V)LINE
VOLTAGE DOWN DET
SCAN DRIVER 1
SOS BLINKING TIMES
LED 2 TIMES
COLD CHASSIS GROUND
FLOATING GROUND
TPSC1 WAVEFORM
VSET
VSUS
VSET2
VSCN
VAD
SC42
TO SD42
Vf
Vf
FSID
FSID
FCLD
FCLD
FCLKD
FCLKD
PROD
PROD
VF5V
VF5V
Vfo
Vfo
SC46
TO SD46
FSID
FCLD
FCLKD
PROD
VF5V
VF5V
SC45
TO SU45
FSIU
FCLU
FCLKU
PROU
VF5V
VF5V
SC41
TO SU41
Vfo
Vfo
Vf
Vf
VF5V
VF5V
PROU
PROU
FCLKU
FCLKU
FCLU
FCLU
FSIU
FSIU


SD
SCAN OUT (DOWN) BOARD
TO SC46
SD46
FSI
FCL
FCLK
PRO
VF5V
VF5V
TO SC42
SD42
FSI
FCL
FCLK
PRO
VF5V
Vf
VSCN
Vfo
IC6955
PDP SCAN DRIVER
IC6956
PDP SCAN DRIVER
IC6957
PDP SCAN DRIVER
IC6958
PDP SCAN DRIVER
Vf
Vfo
Vf5
FS01
FS02
FS03
SHIFT RESISTOR
LATCH
SELECTOR
HV64
HV63
HV62
HV33
HV32
HV18
HV17
HV03
HV02
HV01
64 PIN OUTPUT
48 PIN OUTPUT
SD1
SD2
SD3
To 1st 80pins of SCAN ELECTRODES
To 2nd 80pins of SCAN ELECTRODES
To 3rd 80pins of SCAN ELECTRODES


SS SUSTAIN DRIVE
TO P12
SS12
STB PS
STB12V
+15V
VDA
TP15V
L6003
TPVDA
L6004
TO P11
SS11
VSUS
VSUS
TPVSUS
L6002
TO C23
SS23
VDA
SOS8
5V
UMH
UML
USH
USL
UEH
UEL
TO S1
SS34
STB-PS
STB12V
IC6006
BUFFER
VCC
Vsus GEN.
IC6001
FET DRIVER
VCC
VDD
Q6011
Q6012
Q6013
Q6014
Q6001
Q6002
Q6003
Q6006
Q6007
Q6008
UMH
S2
UML
S3
ENERGY RECOVERY
IC6002
FET DRIVER
VCC
VDD
USH
S1
Q6021
D6024
Q6024
D6029
USL
DISCHARGE
1/2 Vo
D6065
(GREEN LED)
SUSTAIN DRIVE
D6064
SS-BOARD
SOS_DET
Q6056
IC6005
SUSTAIN DRIVER
SOS BLINKING TIMES
LED 9 TIMES
L6011
L6015
TPSS1
SS41
SS42
SS43
SS44
Panel
Sustain
Electrode
Ve GEN.
IC6003
FET DRIVER
VCC
VDD
VE
INSERT
UEH
Q6041
Q6042
TPSS1 WAVEFORM
VE
VSET2
VSUS
Ve2 GEN.
IC6004
FET DRIVER
VCC
In
Ho
Lo
Q6025
VE2
VEL
Q6045
VEL
Q6046
VE GEN.
TPVe
Q6051
Q6052
IC6011
R6074
Ve
VE
GENERATOR

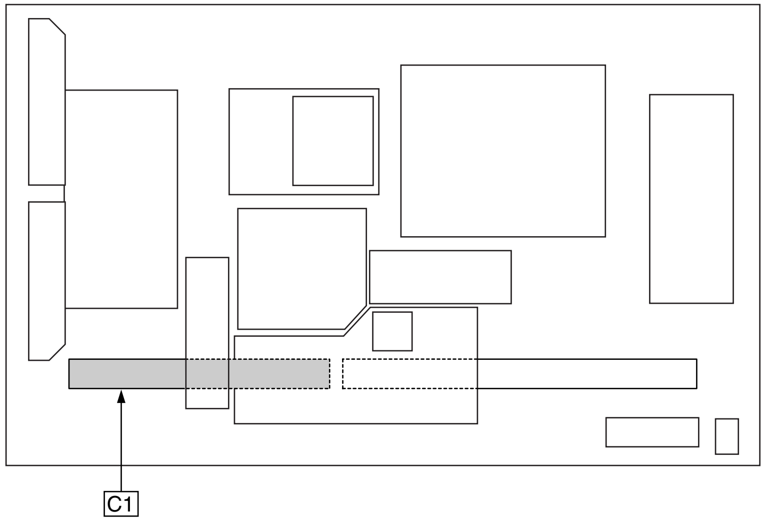
TH-42PM50U
SS-Board Block Diagram

TH-42PM50U
SS-Board Block Diagram

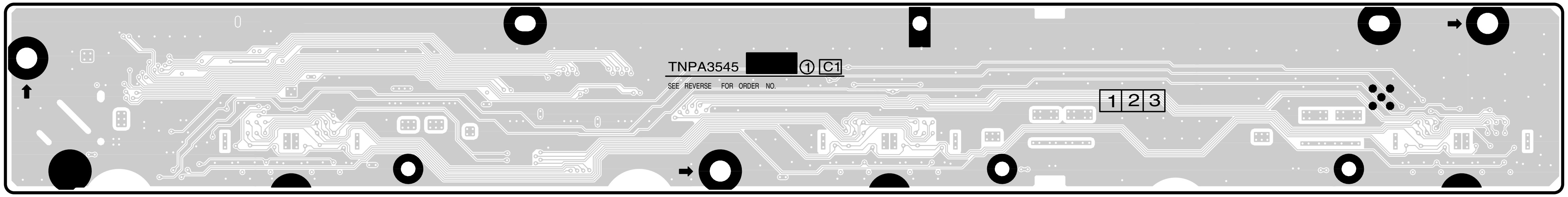

SU
SCAN OUT (UP) BOARD
TO SC45
SU45
FSI
FCL
FCLK
PRO
VF5V
VF5V
TO SC41
SU41
FSI
FCL
FCLK
PRO
VF5V
Vf
VSCN
Vfo
IC6901
PDP SCAN DRIVER
IC6902
PDP SCAN DRIVER
IC6903
PDP SCAN DRIVER
IC6904
PDP SCAN DRIVER
SHIFT RESISTOR
LATCH
SELECTOR
Vf
Vfo
Vf5
FS01
FSO1
FS02
FS03
Q6901
HV64
HV63
HV62
HV18
HV17
HV33
HV32
HV03
HV02
HV01
48 PIN OUTPUT
64 PIN OUTPUT
SU1
SU2
SU3
To 1st 80pins of SCAN ELECTRODES
To 2nd 80pins of SCAN ELECTRODES
To 3rd 80pins of SCAN ELECTRODES

Parts Location

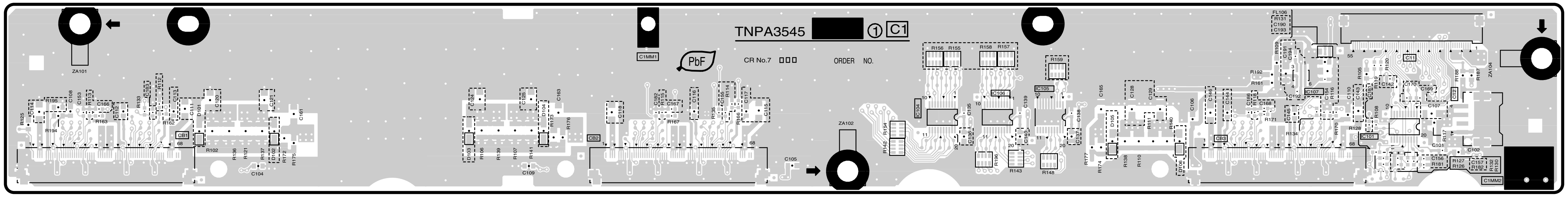
C1-BOARD	
IC	
IC7101	H-1
IC7104	E-2
IC7105	F-2
IC7106	F-2
IC7107	G-2



C1-BOARD(FOIL SIDE)
TNPA3545

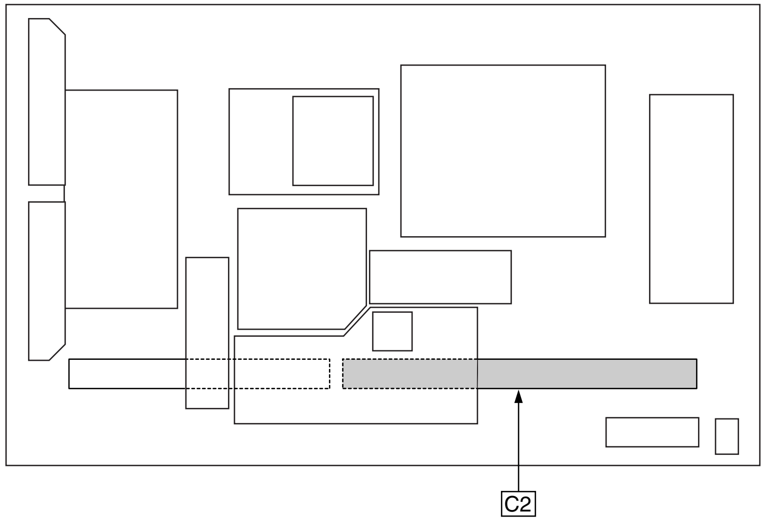

TNPA3545
① C1
SEE REVERSE FOR ORDER NO.
1 2 3

C1-BOARD(COMPONENT SIDE)
TNPA3545

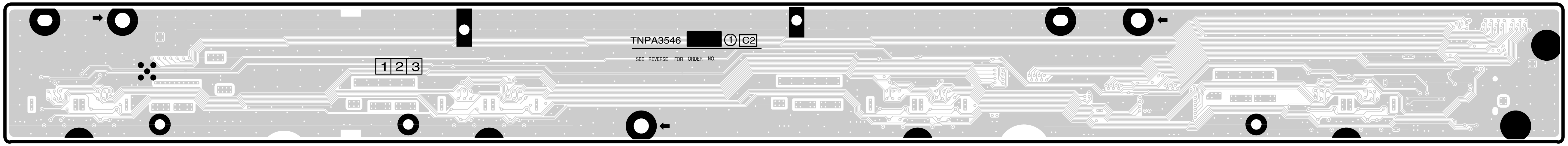

TNPA3545
① C1
CR No.7
ORDER NO.
PbF
ZA101
ZA102
C1MM1
C1MM2

Parts Location

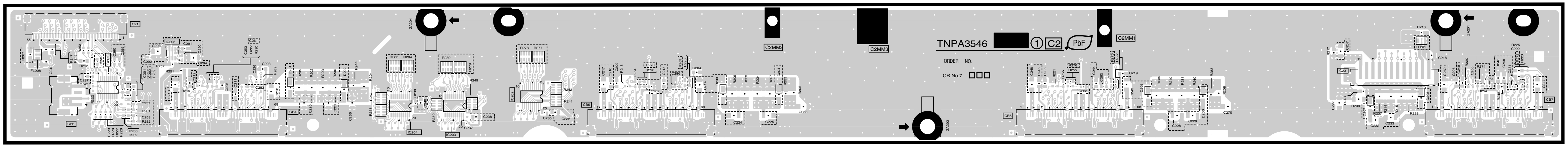
C2-BOARD	
IC	
IC7201	A-2
IC7202	D-2
IC7203	C-2
IC7204	C-2
IC7205	B-2



C2-BOARD(FOIL SIDE)
TNPA3546

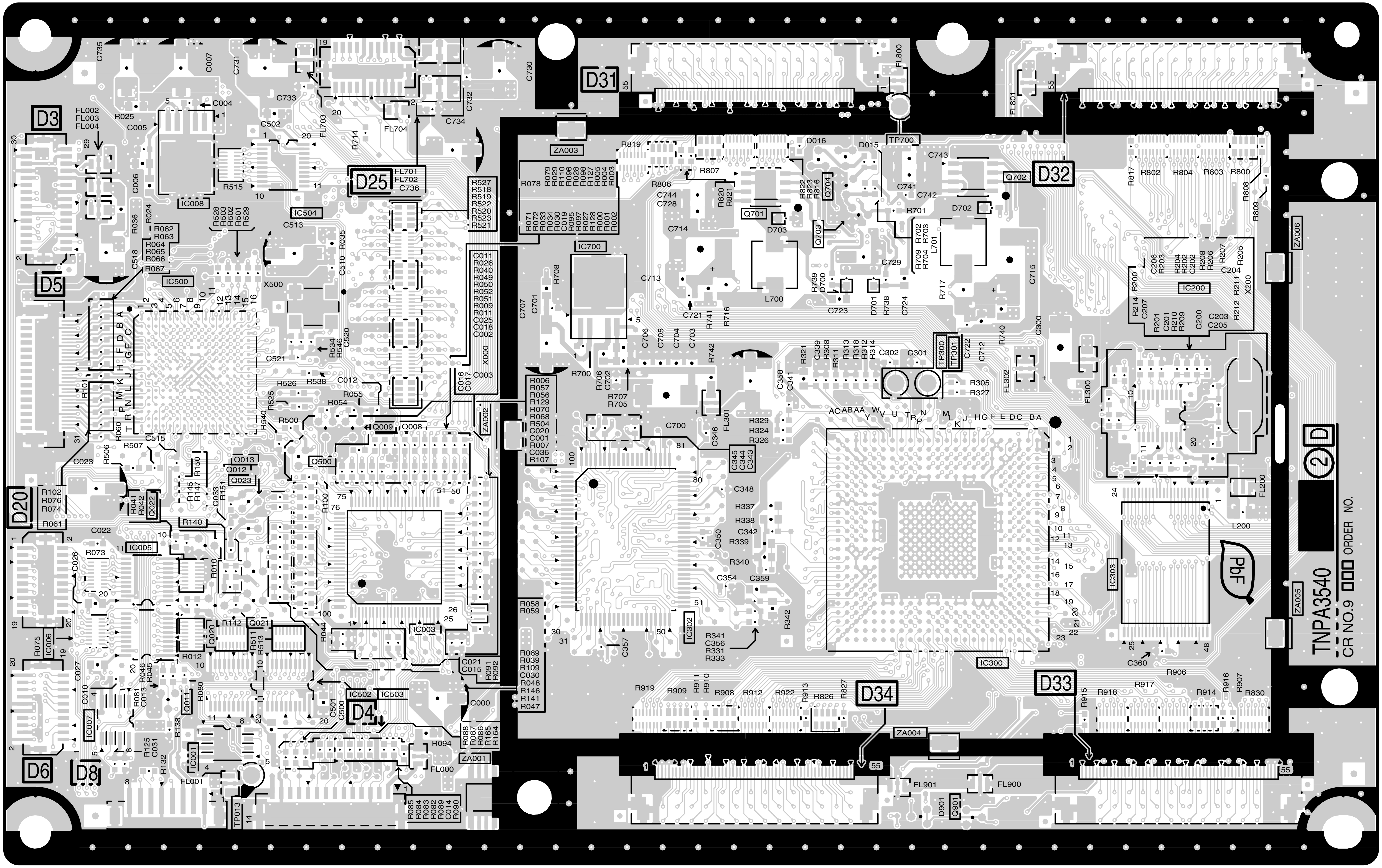

TNPA3546
① C2
SEE REVERSE FOR ORDER NO.
1 2 3

C2-BOARD(COMPONENT SIDE)
TNPA3546


TNPA3546
① C2
PbF
ORDER NO.
CR No.7
C2MM1
C2MM2
C2MM3

TH-42PM50U
C2-BOARD TNPA3546

D-BOARD(COMPONENT SIDE)
TZTNP010YFS


D3
D5
D20
D6
D8
D4
D25
D31
D32
D33
D34
IC008
IC504
IC500
IC005
IC003
IC006
IC007
IC001
IC502
IC503
IC700
IC302
IC300
IC303
IC200
ZA001
ZA002
ZA003
ZA004
ZA005
ZA006
TP700
TP300
TP301
TP013
Q701
Q702
Q703
Q704
Q500
FL800
FL801
FL900
FL901
FL000
FL001
FL701
FL702
FL703
FL704
L700
L200
X000
X500
X200
TNPA3540
CR NO.9
ORDER NO.
PbF
2
D
A
B
C
D
E
F
G
H
I
1
2
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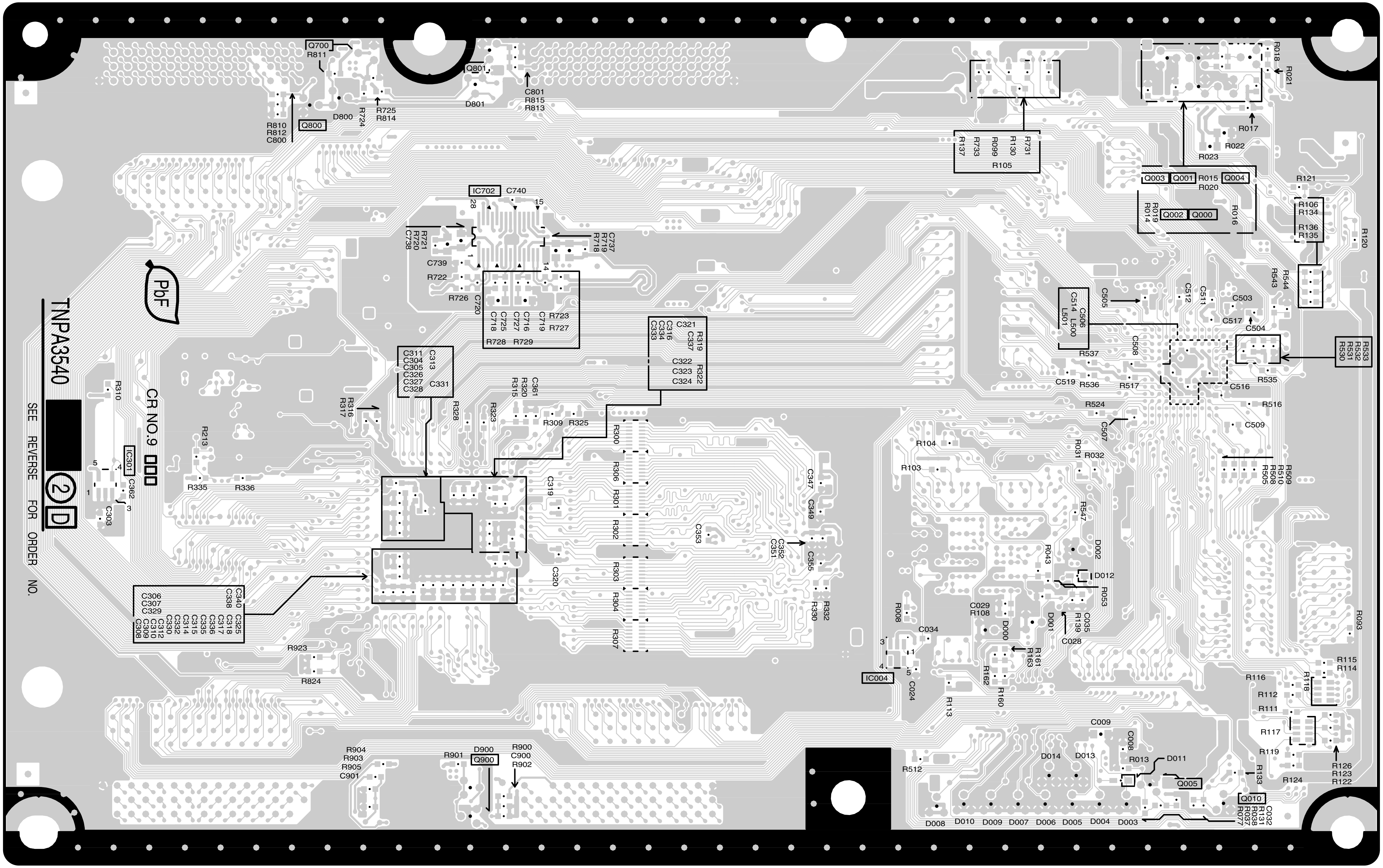
4
5
6

D-BOARD(FOIL SIDE)
TZTNP010YFS



6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
Q700
R811
Q801
D801
C801
R815
R813
R725
R814
R724
D800
R810
R812
C800
Q800
R137
R733
R099
R130
R731
R105
R018
R021
R017
R022
R023
Q003
Q001
R015
Q004
R020
R019
R014
Q002
Q000
R016
R121
R106
R134
R136
R135
R120
R544
R543
IC702
C740
28
15
1
14
R721
R720
C738
C737
R719
R718
C739
R722
R726
C720
C718
C725
C716
C727
C719
R723
R727
R728
R729
PbF
TNPA3540
CR NO.9
SEE REVERSE FOR ORDER NO.
2
D
R310
R213
IC301
5
4
1
3
C362
C303
R335
R336
C311
C304
C305
C326
C327
C328
C313
C331
R316
R317
R328
R323
R315
R320
C361
R309
R325
C321
C316
C334
C333
C337
R319
C322
C323
C324
R322
R300
R306
R301
R302
R303
R304
R307
C319
C320
C347
C349
C353
C352
C351
C355
R330
R332
C306
C307
C329
C308
C309
C310
C312
C330
C314
C332
C315
C335
C336
C317
C318
C325
C338
C340
R923
R824
R904
R903
R905
C901
R901
D900
Q900
R900
C900
R902
C514
C506
L500
L501
C505
C512
C511
C503
C517
C504
C508
R537
C519
R536
R517
C516
R535
R533
R532
R531
R530
R516
R524
C507
C509
R104
R031
R032
R103
R509
R510
R508
R505
R547
D002
R043
D012
R053
R008
C029
R108
D000
D001
R139
C035
C028
C034
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5
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C024
R161
R163
R162
R160
R113
R093
R115
R114
R116
R118
R112
R111
R117
R119
R126
R123
R122
C009
C008
D014
D013
R013
D011
Q005
R512
R124
R133
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C032
R131
R038
R037
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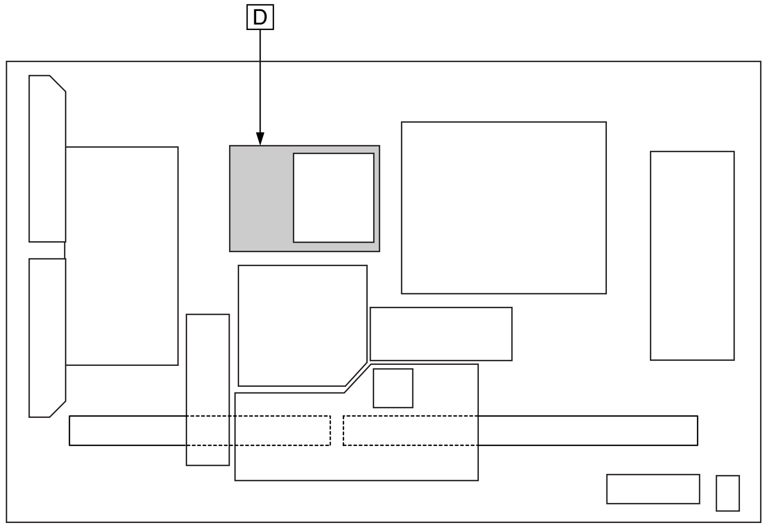
D007
D006
D005
D004
D003



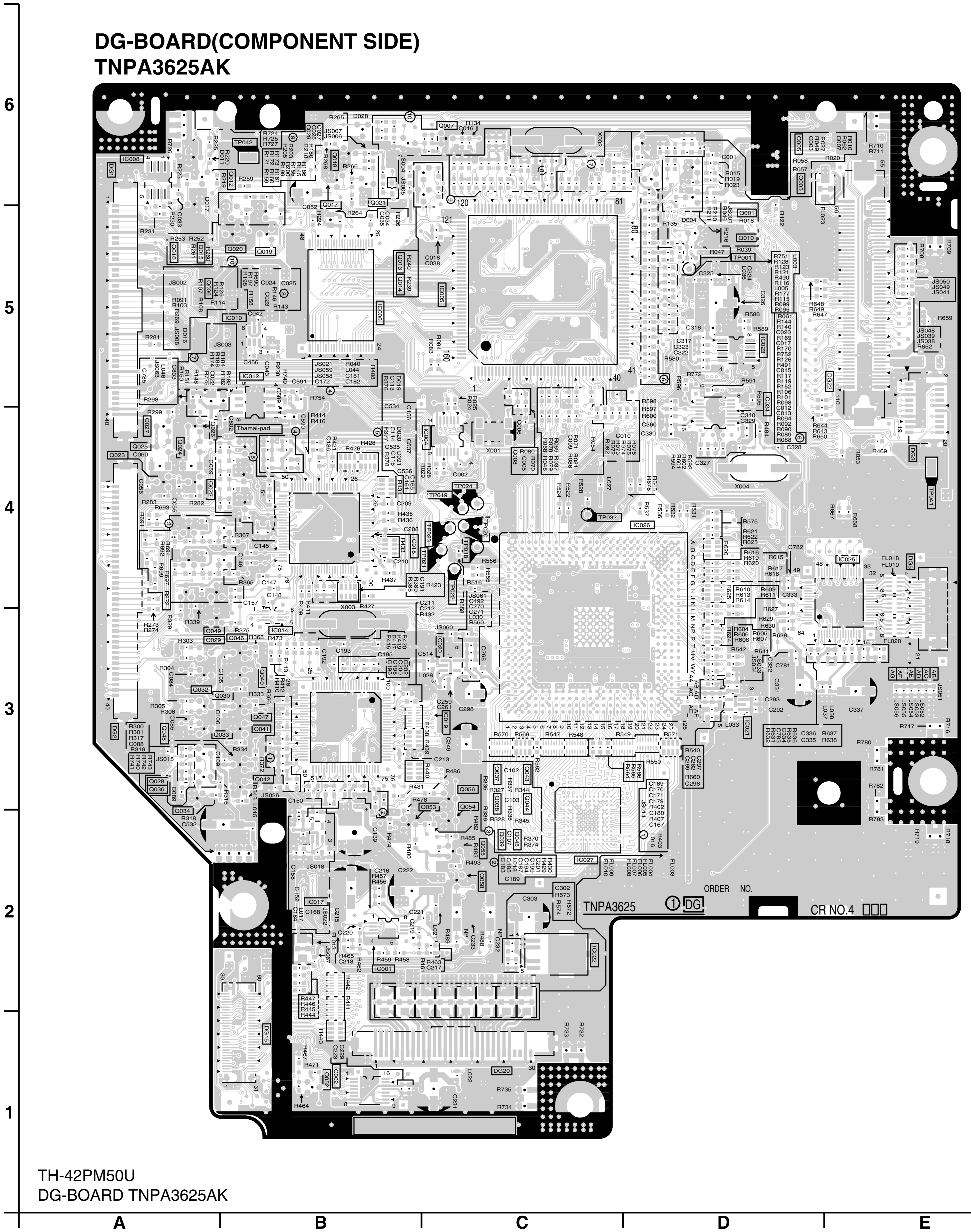
Parts Location

D-BOARD (FOIL SIDE)			
IC		**TRANSISTOR**	
IC9004	F-2	Q9000	H-5
IC9301	B-3	Q9001	H-5
IC9702	D-5	Q9002	H-5
		Q9003	H-5
		Q9004	H-5
		Q9005	H-1
		Q9010	H-1
		Q9700	C-6
		Q9800	C-5
		Q9801	D-6
		Q9900	D-1

Parts Location

D-BOARD (COMPONENT SIDE)					
IC		**TRANSISTOR**		**TP**	
IC9001	B-1	Q9008	C-3	TP9013	B-1
IC9003	C-2	Q9009	C-3	TP9300	F-4
IC9005	B-3	Q9011	B-2	TP9301	F-4
IC9006	A-2	Q9012	B-3		
IC9007	A-2	Q9013	B-3		
IC9008	B-5	Q9020	B-2		
IC9200	H-4	Q9021	B-2		
IC9300	G-2	Q9022	B-3		
IC9302	E-2	Q9023	B-3		
IC9303	G-2	Q9500	C-3		
IC9500	B-4	Q9701	E-5		
IC9502	C-2	Q9702	G-5		
IC9503	C-2	Q9703	F-5		
IC9504	C-5	Q9704	F-5		
IC9700	D-5	Q9901	G-1		

DG-BOARD(COMPONENT SIDE)
TNPA3625AK


6
5
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A
B
C
D
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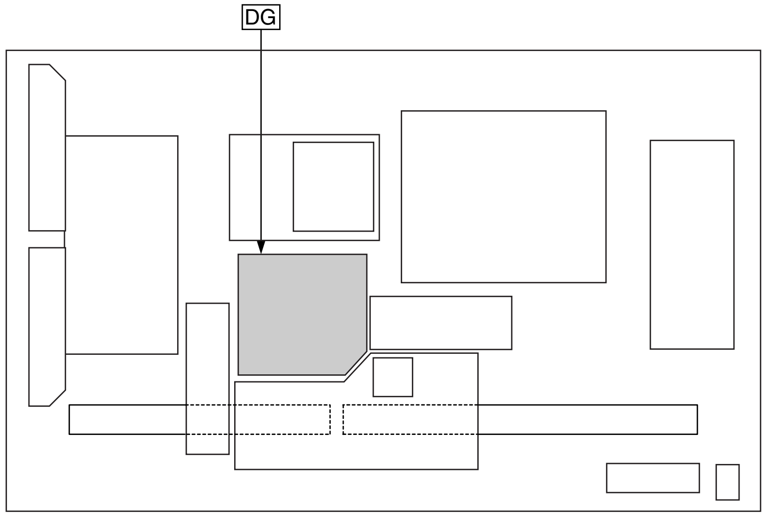
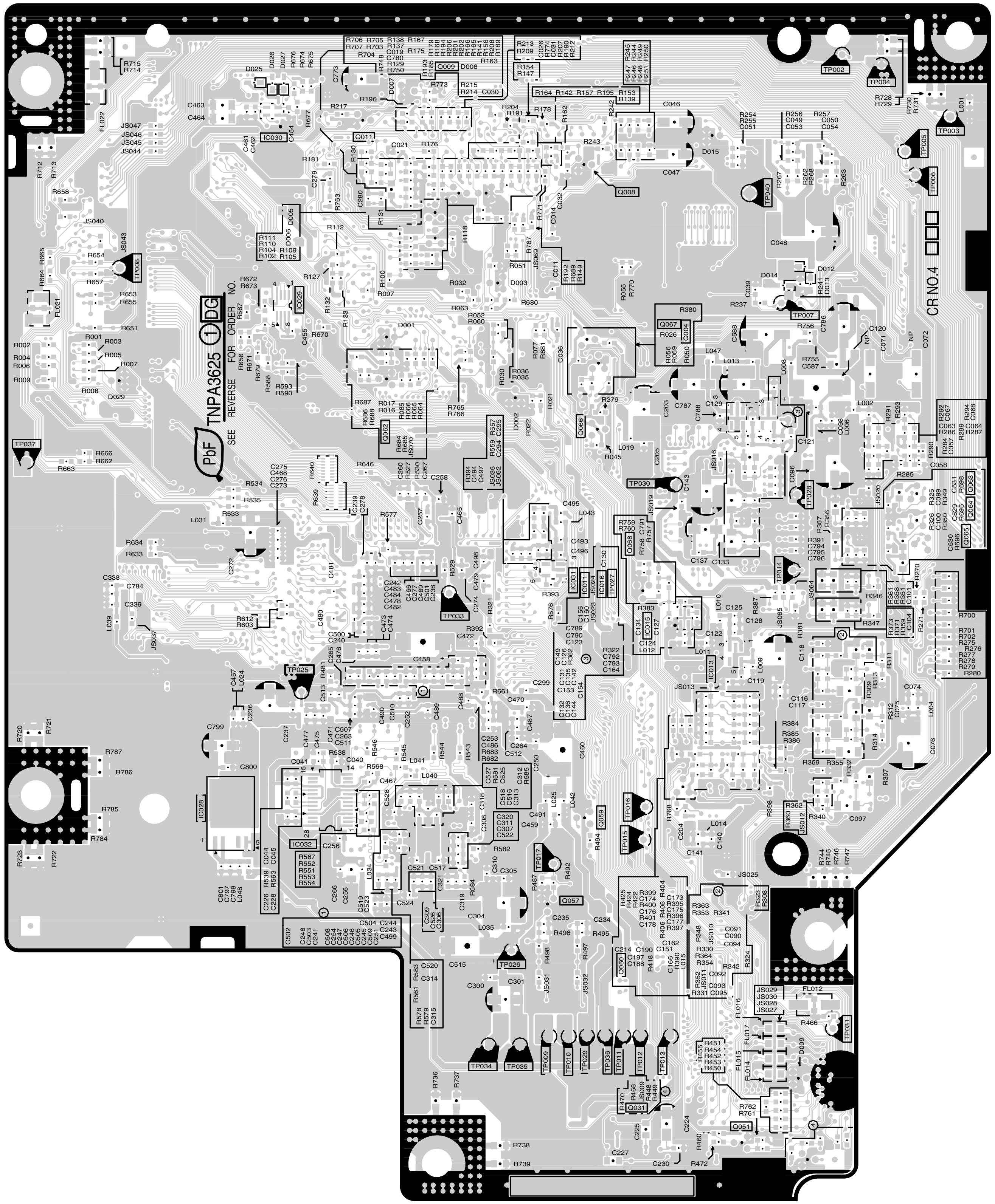
F
G
H
I
TNPA3625
① DG
ORDER NO.
CR NO.4
Thamal-pad
IC4001
IC4008
IC4010
IC4012
IC4014
IC4017
IC4018
IC4025
IC4027
TP4018
TP4019
TP4032
TP4041
TP4042
X001
X002
X003
X004

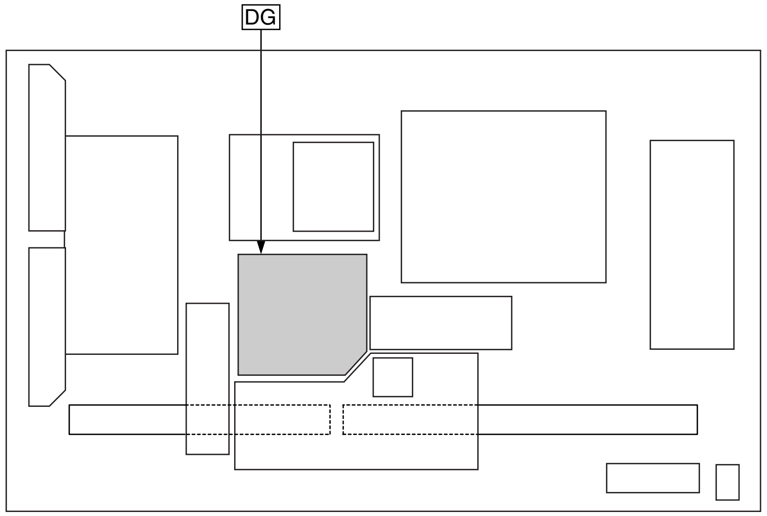


Parts Location

DG-BOARD (COMPONENT SIDE)							
IC		**TRANSISTOR**				**TP**	
IC4001	B-2	Q4001	D-5	Q4030	B-3	TP4018	C-4
IC4002	B-1	Q4003	D-6	Q4032	A-3	TP4019	C-4
IC4004	C-4	Q4005	D-6	Q4033	B-3	TP4020	C-4
IC4005	C-5	Q4006	A-5	Q4034	A-2	TP4021	C-4
IC4006	B-5	Q4007	C-6	Q4036	A-3	TP4022	C-4
IC4008	A-6	Q4010	D-5	Q4037	C-3	TP4023	C-4
IC4010	B-5	Q4012	B-6	Q4038	C-3	TP4024	C-4
IC4012	B-5	Q4013	B-5	Q4039	C-3	TP4032	C-4
IC4014	B-3	Q4014	B-5	Q4040	B-3	TP4041	E-4
IC4017	B-2	Q4015	A-5	Q4041	B-3	TP4042	B-6
IC4018	B-4	Q4016	A-5	Q4042	B-3		
IC4019	C-3	Q4017	B-6	Q4043	C-3		
IC4020	C-3	Q4018	B-6	Q4044	C-3		
IC4021	D-3	Q4019	B-5	Q4045	C-2		
IC4022	C-2	Q4020	B-5	Q4046	B-3		
IC4023	D-5	Q4021	B-6	Q4047	B-3		
IC4024	D-5	Q4022	A-4	Q4048	A-3		
IC4025	E-4	Q4023	A-4	Q4049	A-3		
IC4026	D-4	Q4024	A-4	Q4052	B-1		
IC4027	C-2	Q4025	A-4	Q4053	C-3		
		Q4026	A-4	Q4054	C-3		
		Q4027	A-4	Q4055	C-2		
		Q4028	A-3	Q4056	C-3		
		Q4029	A-3	Q4058	C-2		

DG-BOARD(FOIL SIDE)
TNPA3625AK





Parts Location

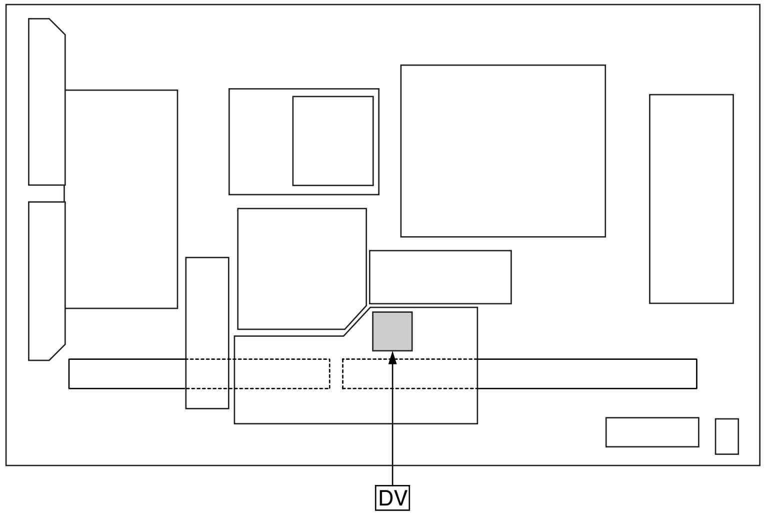
DG-BOARD (FOIL SIDE)

IC		TRANSISTOR		TP	
IC4011	C-4	Q4004	D-5	TP4002	E-6
IC4013	D-3	Q4008	D-5	TP4003	E-5
IC4015	D-3	Q4009	C-6	TP4004	E-6
IC4016	C-4	Q4011	B-6	TP4005	E-5
IC4028	B-3	Q4031	D-1	TP4006	E-5
IC4029	B-5	Q4050	D-2	TP4007	D-5
IC4030	B-6	Q4051	D-1	TP4008	A-5
IC4031	C-4	Q4057	C-2	TP4009	C-1
IC4032	B-2	Q4059	C-3	TP4010	C-1
		Q4062	C-4	TP4011	D-1
		Q4063	E-4	TP4012	D-1
		Q4064	E-4	TP4013	D-1
		Q4065	E-4	TP4014	D-4
		Q4066	C-4	TP4015	D-2
		Q4067	D-5	TP4016	D-2
		Q4068	D-4	TP4017	C-2
				TP4025	B-3
				TP4026	C-2
				TP4028	D-4
				TP4029	C-1
				TP4030	D-4
				TP4031	D-1
				TP4033	C-3
				TP4034	C-1
				TP4035	C-1
				TP4036	C-1
				TP4037	A-4
				TP4040	D-5

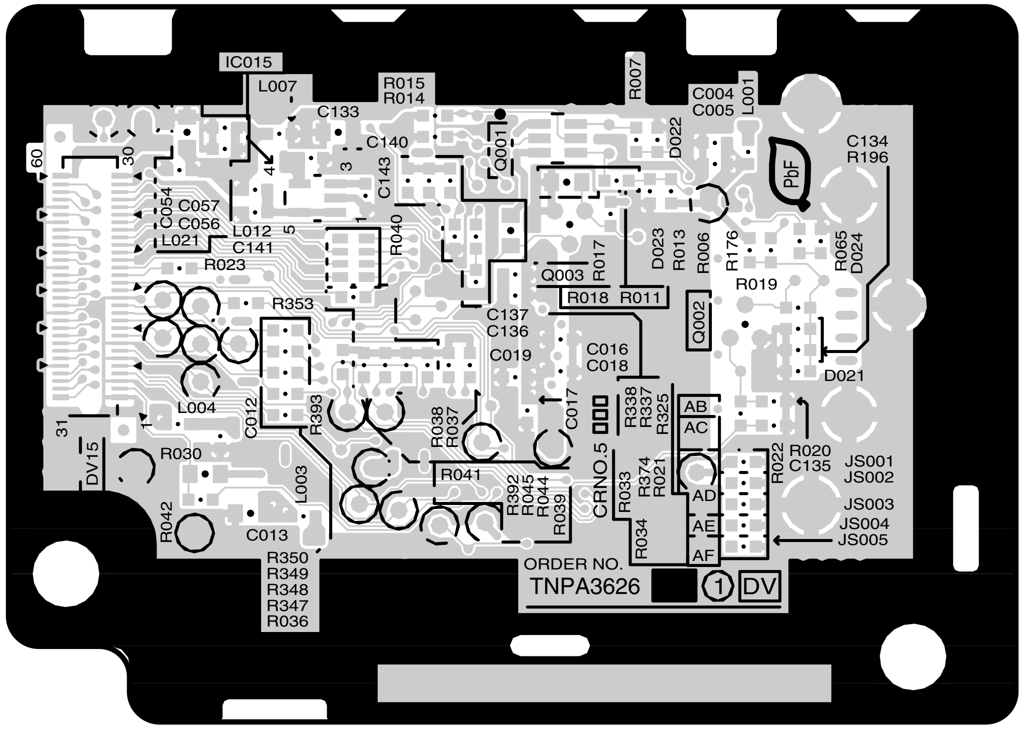
THIS IS FOR REFERENCE USE ONLY.
THIS MUST BE REPLACED WITH
AN EXCHANGE BOARD ONLY.

Parts Location

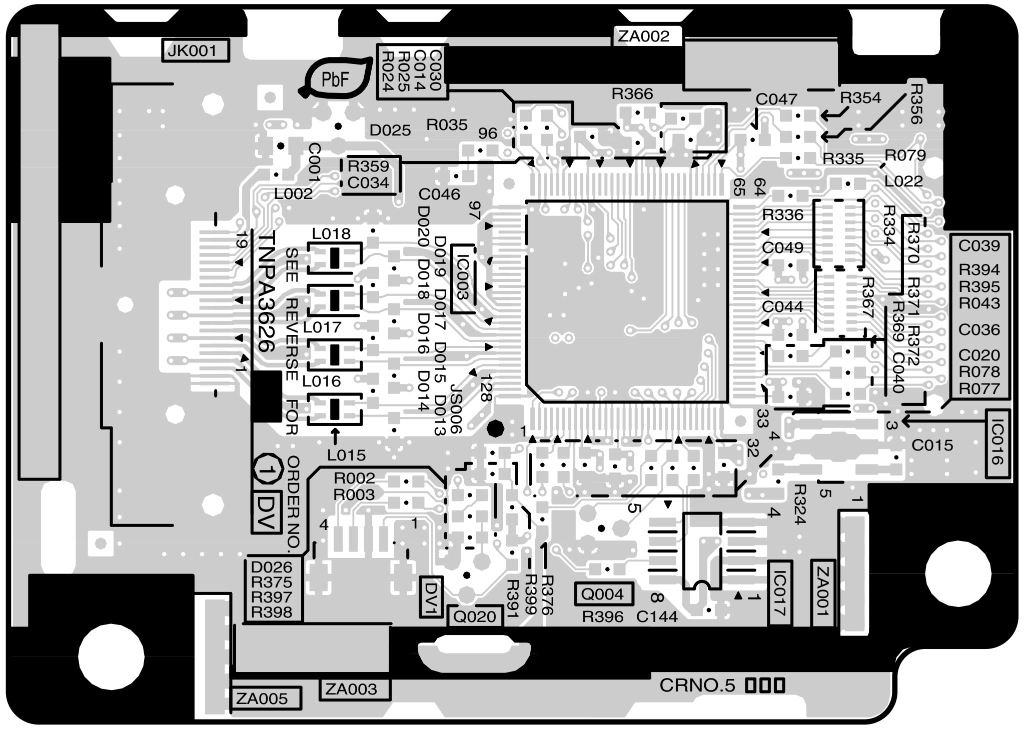
DV-BOARD			
IC		**TRANSISTOR**	
IC5003	F-2	Q5001	B-3
IC5015	B-3	Q5002	C-2
IC5016	H-2	Q5003	C-2
IC5017	G-1	Q5004	G-1
		Q5020	F-1



DV-BOARD(FOIL SIDE)
TNPA3626


IC015
L007
R015
R014
R007
C004
C005
L001
C133
C140
Q001
D022
C134
R196
PbF
60
30
3
4
C143
C054
C057
C056
L012
L021
C141
R023
R040
D023
R013
R006
R176
R065
D024
Q003
R017
R018
R011
R019
R353
C137
C136
C019
Q002
C016
C018
D021
L004
C012
R393
R038
R037
C017
R338
R337
R325
AB
AC
31
DV15
R030
R041
R392
R045
R044
R039
CRNO.5
R033
R374
R021
AD
AE
AF
R022
R020
C135
JS001
JS002
JS003
JS004
JS005
R042
L003
C013
R034
R350
R349
R348
R347
R036
ORDER NO.
TNPA3626
①
DV

DV-BOARD(COMPONENT SIDE)
TNPA3626


JK001
PbF
C030
C014
R025
R024
ZA002
R366
C047
R354
R356
D025
R035
96
C001
R359
C034
R335
R079
L002
C046
97
65
64
L022
R336
R334
R370
R371
C039
R394
R395
R043
C036
C020
R078
R077
L018
D020
D019
D018
D017
IC003
C049
C044
R367
R369
R372
C040
SEE REVERSE FOR
TNPA3626
L017
D016
D015
D014
L016
JS006
D013
128
1
33
32
3
4
C015
IC016
L015
①
DV
ORDER NO.
R002
R003
4
1
5
R324
4
1
D026
R375
R397
R398
DV1
Q020
R391
R399
R376
Q004
R396
C144
8
IC017
ZA001
ZA005
ZA003
CRNO.5

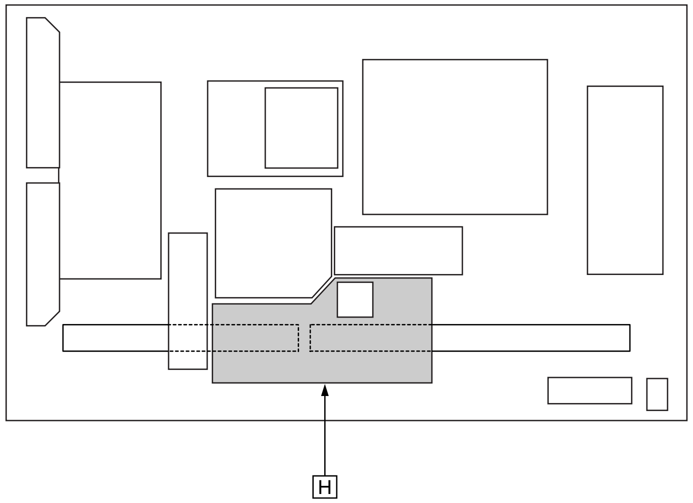
6
5
4
3
2
1

A B C D E F G H I

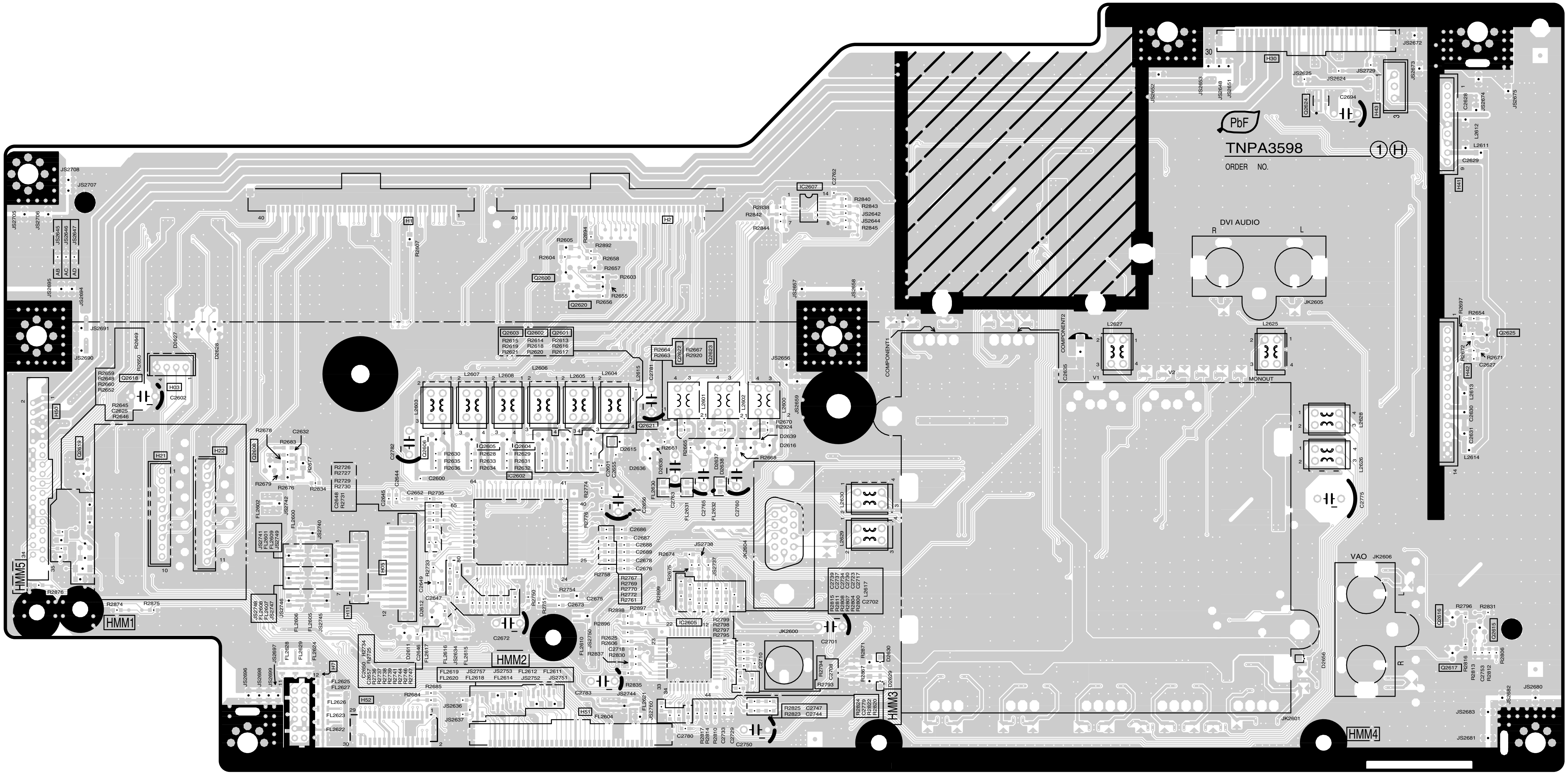
TH-42PM50U
DV-BOARD TNPA3626

Parts Location

H-BOARD (COMPONENT SIDE)					
IC		**TRANSISTOR**			
IC2602	D-2	Q2600	D-3	Q2616	H-2
IC2605	D-2	Q2601	D-3	Q2617	H-1
IC2607	E-4	Q2602	D-3	Q2618	B-3
		Q2603	D-3	Q2619	A-3
		Q2604	D-3	Q2620	D-3
		Q2605	C-3	Q2621	D-3
		Q2606	C-3	Q2622	D-3
		Q2608	B-3	Q2623	E-3
		Q2615	I-2	Q2624	H-4
				Q2625	I-3

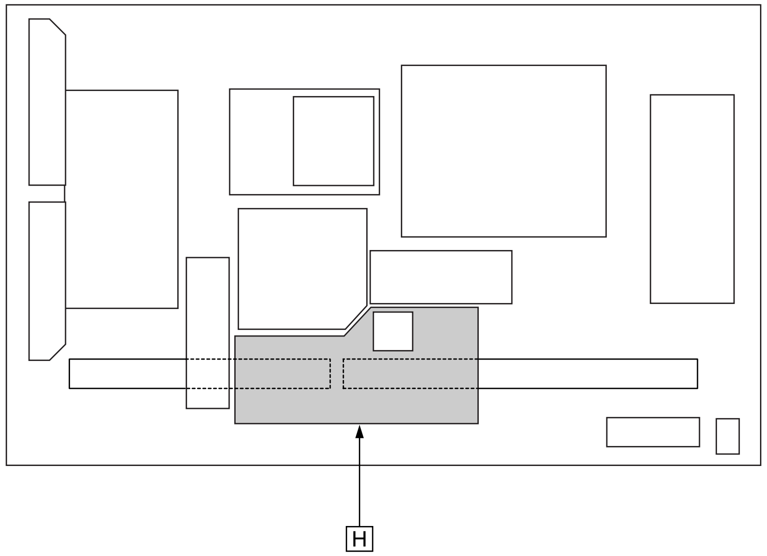


H-BOARD(COMPONENT SIDE)
TNPA3598AD

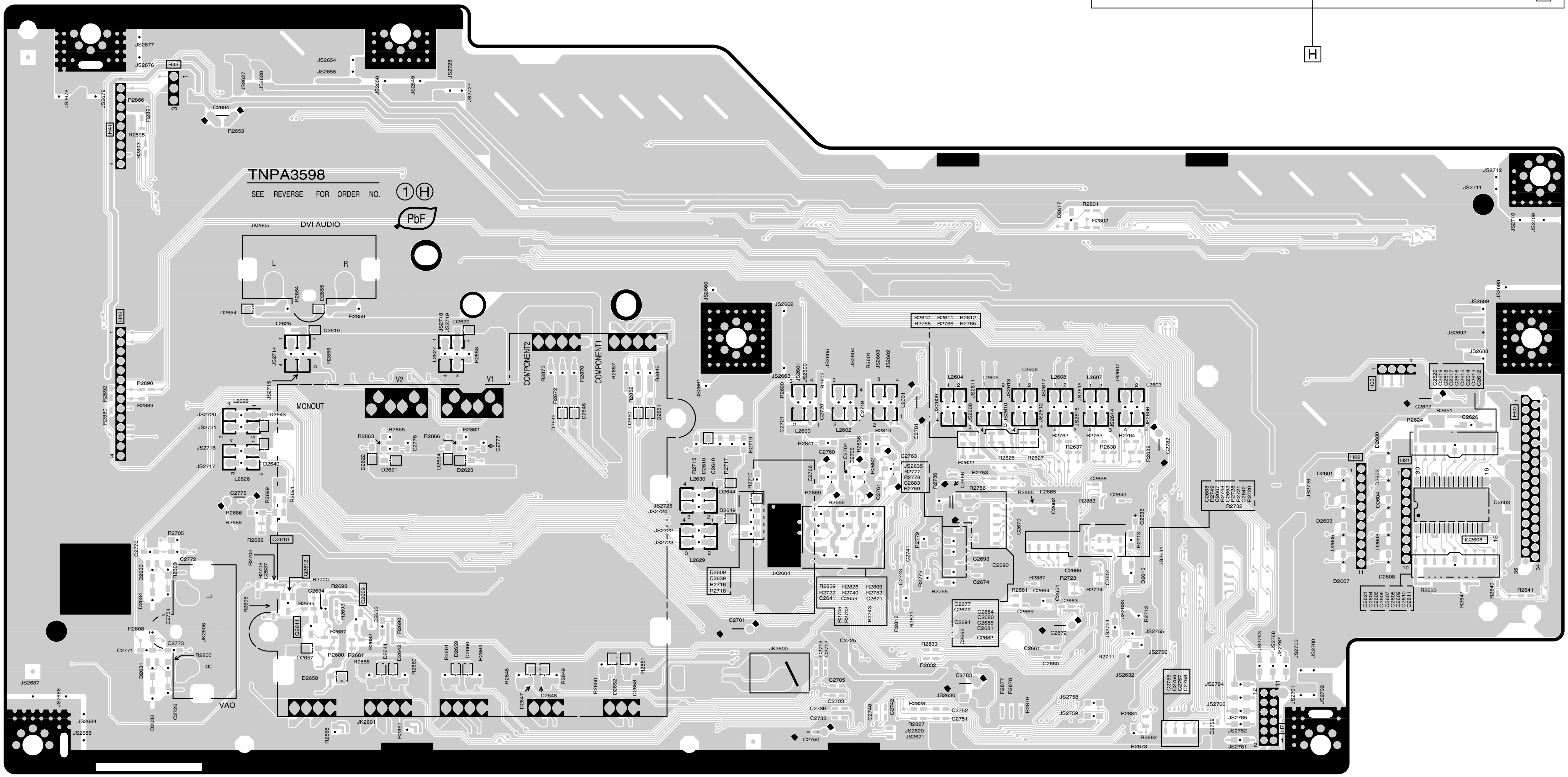

TNPA3598 ①Ⓗ
ORDER NO.
PbF
DVI AUDIO
R
L
JK2605
VAO
JK2606
COMPONENT1
COMPONENT2
MONOUT
V1
V2
HMM1
HMM2
HMM3
HMM4
HMM5
H1
H2
H30
IC2602
IC2605
IC2607
Q2600
Q2601
Q2602
Q2603
Q2604
Q2605
Q2615
Q2616
Q2617
Q2618
Q2620
Q2621
Q2625
JK2600
JK2601
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I

Parts Location

H-BOARD (FOIL SIDE)			
IC		**TRANSISTOR**	
IC2608	I-2	Q2609 Q2610 Q2611 Q2612	C-2 B-2 B-2 B-2



H-BOARD(FOIL SIDE)
TNPA3598AD

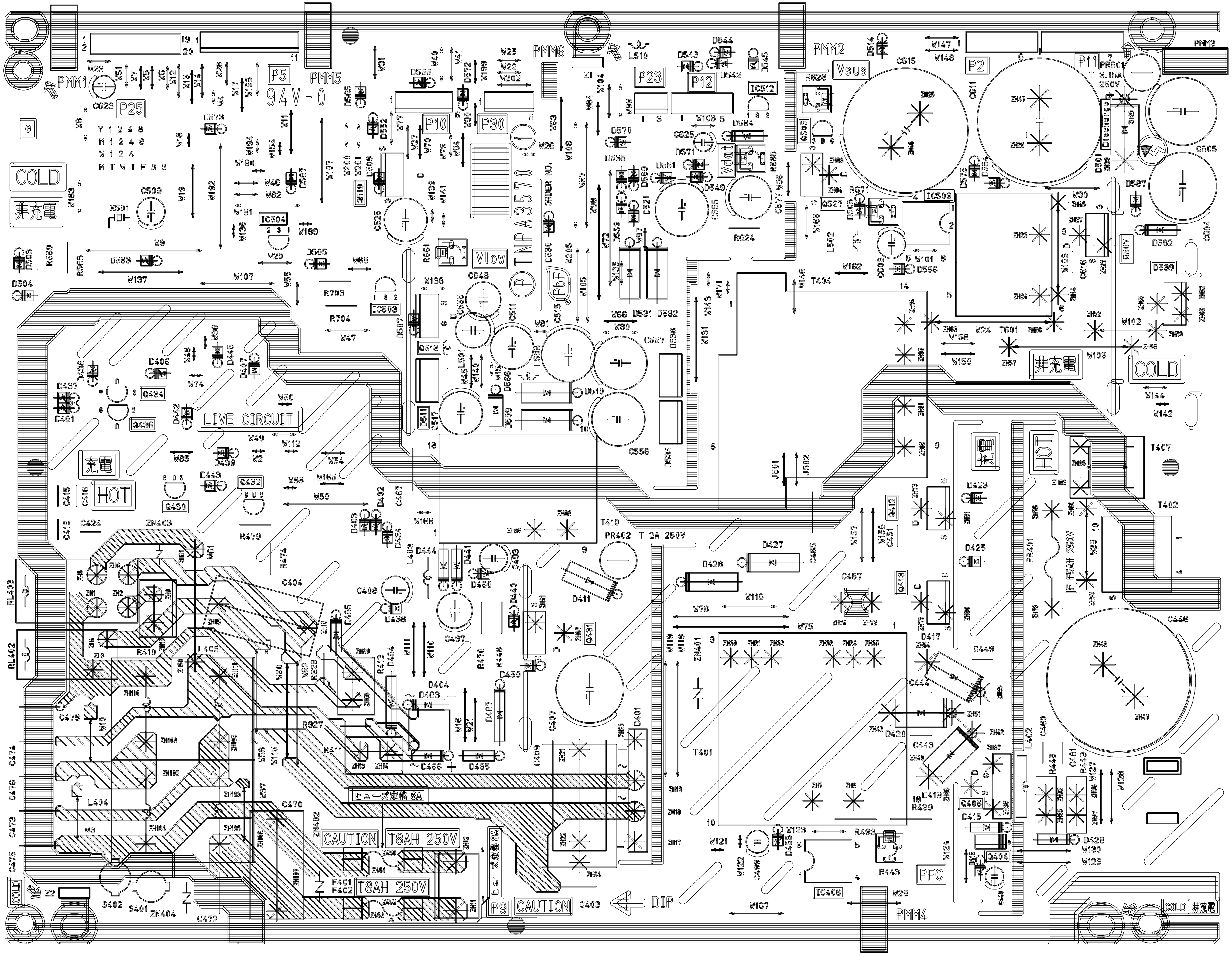


TNPA3598
SEE REVERSE FOR ORDER NO.
①Ⓗ
PbF
JK2605
DVI AUDIO
L
R
MONOUT
V2
V1
COMPONENT2
COMPONENT1
JK2604
JK2600
JK2606
VAO
JK2601
IC2608
Q2609
Q2610
Q2611
Q2612
H43
H41
H42
H03
H50
H22
H21
H21

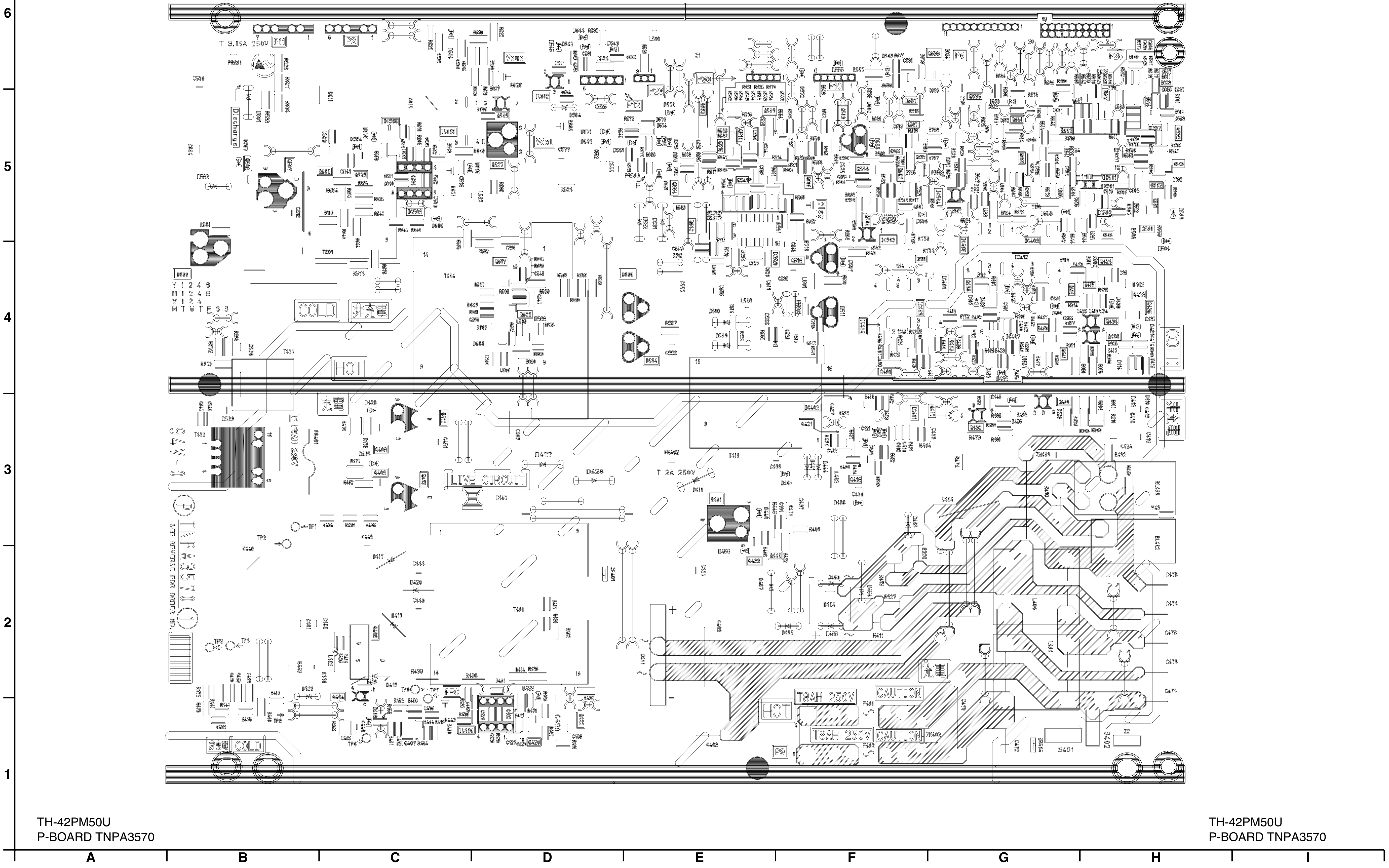
6
5
4
3
2
1

A B C D E F G H I

P-BOARD (COMPONENT SIDE)
TNPA3570

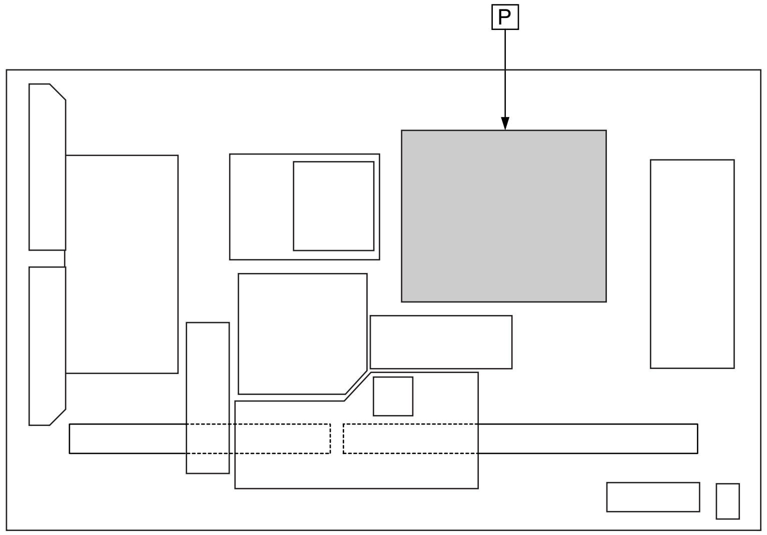

6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
PMM1
PMM2
PMM3
PMM4
PMM5
PMM6
P2
P5
P9
P10
P11
P12
P23
P25
P30
94V-0
TNPA3570
ORDER NO.
COLD
HOT
LIVE CIRCUIT
Vsus
Vdet
Vlow
PFC
Discharge
CAUTION
T8AH 250V
PR402 T 2A 250V
PR601 T 3.15A 250V
DIP
T401
T402
T404
T407
T410
T601
C446
C605
C611
C615
IC406
IC503
IC504
IC509
IC512
RL402
RL403
S401
S402
ZN401
ZN402
ZN403
ZN404
F401
F402
L402
L403
L404
L405
L501
L502
L506
L510
J501
J502

P-BOARD (FOIL SIDE)
TNPA3570


6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
T 3.15A 250V
P11
P2
Vsus
Vset
P29
P12
P30
P10
P6
P25
Discharge
COLD
HOT
LIVE CIRCUIT
D427
D428
T 2A 250V
F5AH 250V
94V-0
TNPA3570
SEE REVERSE FOR ORDER NO.
TP1
TP2
TP3
TP4
TP5
TP6
TP7
PFC
T8AH 250V
CAUTION
F401
F402
P9
S401
S402
T401
T407
T402
T410
T404
RL401
RL402
L401
L402
Y 1 2 4 8
M 1 2 4 8
W 1 2 4
M T W T F S S

TH-42PM50U
P-BOARD TNPA3570

TH-42PM50U
P-BOARD TNPA3570



Parts Location

P-BOARD (FOIL SIDE)

IC	
IC401	G-4
IC402	F-3
IC403	F-4
IC404	F-4
IC406	D-1
IC407	G-4
IC408	G-4
IC409	G-5
IC411	F-3
IC412	G-4
IC431	F-4
IC501	H-5
IC502	H-5
IC503	F-5
IC504	G-5
IC505	C-5
IC506	C-5
IC507	H-5
IC509	C-5
IC512	D-6
IC520	E-5

TRANSISTOR	
Q401	F-4
Q403	G-4
Q404	C-2
Q406	C-2
Q407	C-1
Q408	C-3
Q409	C-3
Q412	C-3
Q413	C-3
Q414	G-4
Q415	H-4
Q417	G-3
Q418	F-3
Q420	D-1
Q421	F-3
Q422	D-1
Q423	H-4
Q424	H-4
Q430	G-3
Q431	E-3
Q432	G-3
Q433	G-4
Q434	H-4
Q435	H-4
Q436	H-4
Q438	G-4
Q439	E-2
Q440	E-2
Q441	G-4
Q501	H-5
Q502	H-5
Q503	H-5
Q505	D-5
Q506	B-5
Q507	B-5
Q508	F-5
Q509	E-5
Q510	E-5
Q511	F-4
Q512	F-5
Q516	E-5
Q517	D-4
Q518	F-4
Q519	F-5
Q520	D-4
Q525	C-5
Q527	D-5
Q530	C-5
Q535	H-5
Q536	G-5
Q537	F-5
Q538	G-6
Q541	E-5
Q542	E-5
Q544	H-5
Q550	G-5
Q551	G-5
Q552	H-5
Q553	E-5
Q554	E-5
Q557	G-5
Q558	F-5
Q559	G-5
Q560	F-5
Q561	G-5
Q562	F-5
Q564	F-5
Q565	H-5
Q567	F-5

TP	
TP1	B-3
TP2	B-3
TP3	B-2
TP4	B-2
TP5	C-2
TP6	C-1
TP7	C-1
TP8	B-1

Parts Location

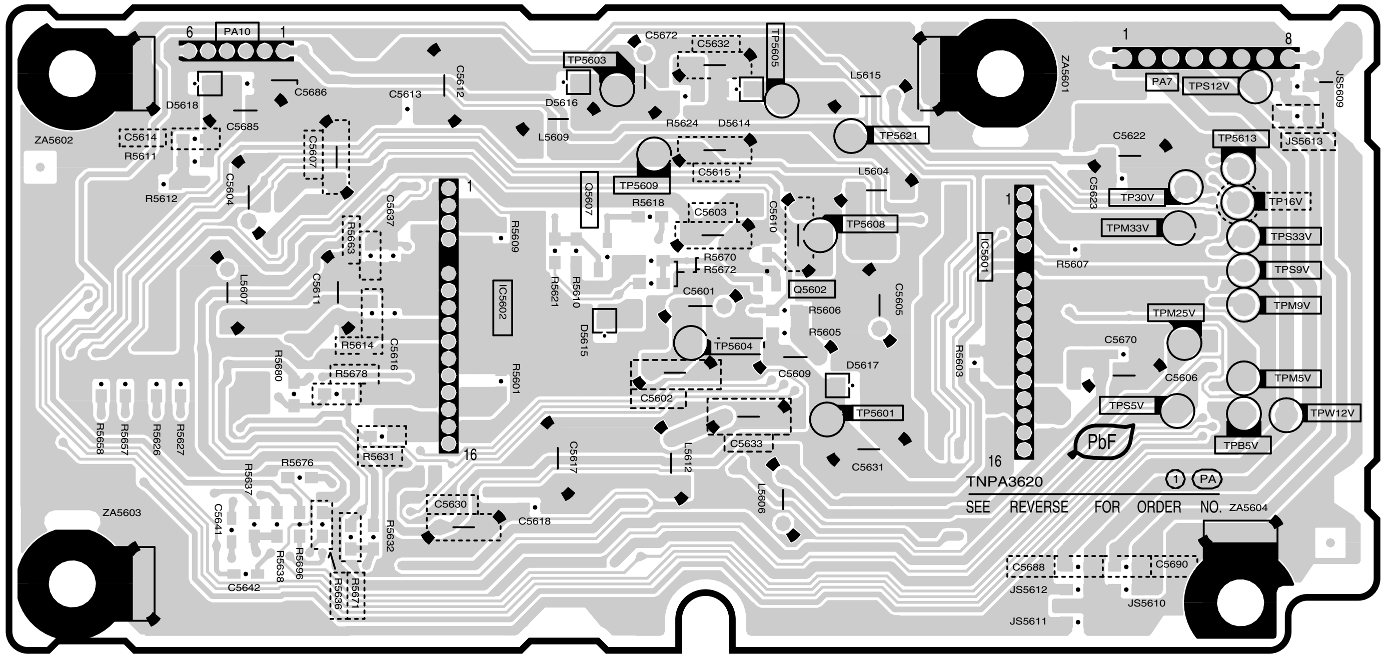
P-BOARD (COMPONENT SIDE)

IC		TRANSISTOR	
IC406	F-1	Q404	G-1
IC503	D-5	Q406	G-2
IC504	C-5	Q412	G-3
IC509	G-5	Q413	G-3
IC512	F-6	Q430	B-3
		Q431	D-3
		Q432	C-3
		Q434	B-4
		Q436	B-4
		Q505	F-5
		Q507	G-5
		Q518	D-4
		Q519	D-5
		Q527	F-5

6

PA-BOARD(FOIL SIDE)
TNPA3620AD

5


PA10
ZA5602
ZA5601
ZA5603
ZA5604
PA7
TPS12V
JS5613
TP5603
TP5605
TP5621
TP5609
TP5608
TP5604
TP5601
TP5613
TP16V
TP30V
TPM33V
TPS33V
TPS9V
TPM9V
TPM25V
TPM5V
TPS5V
TPW12V
TPB5V
IC5601
IC5602
Q5602
Q5607
C5690
C5688
JS5612
JS5611
JS5610
PbF
TNPA3620
SEE REVERSE FOR ORDER NO.
1
PA

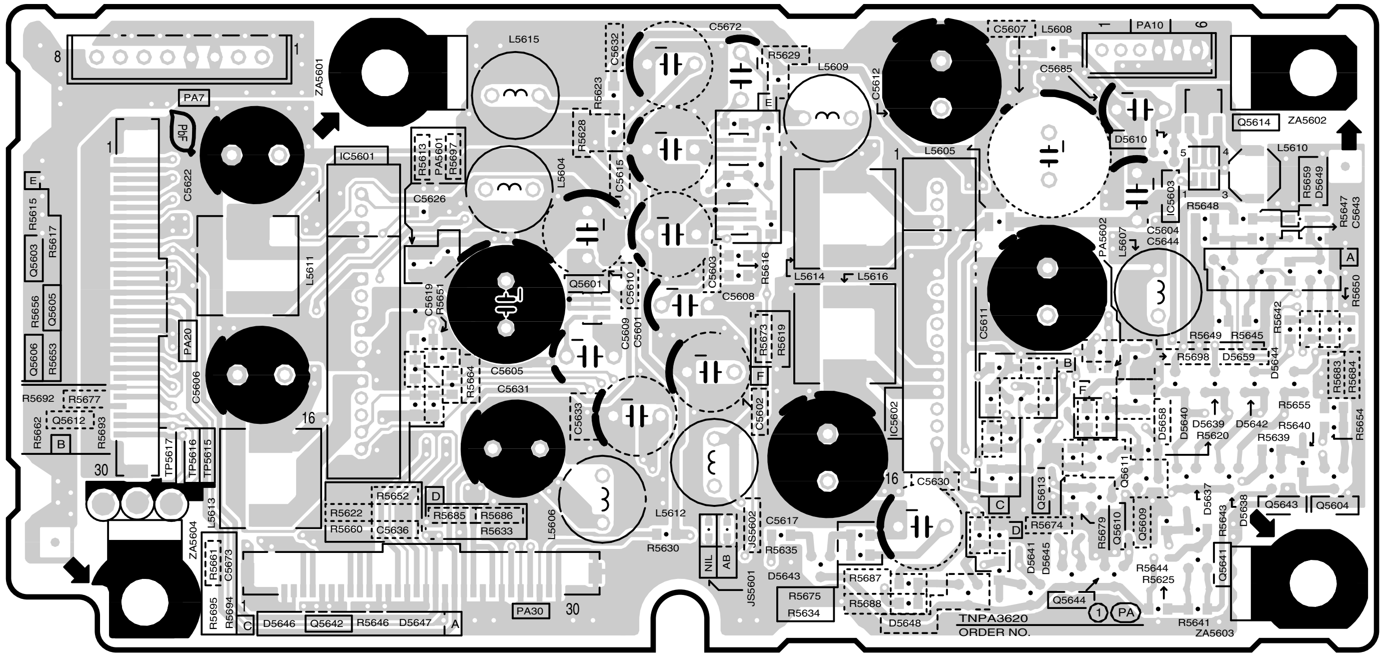
4

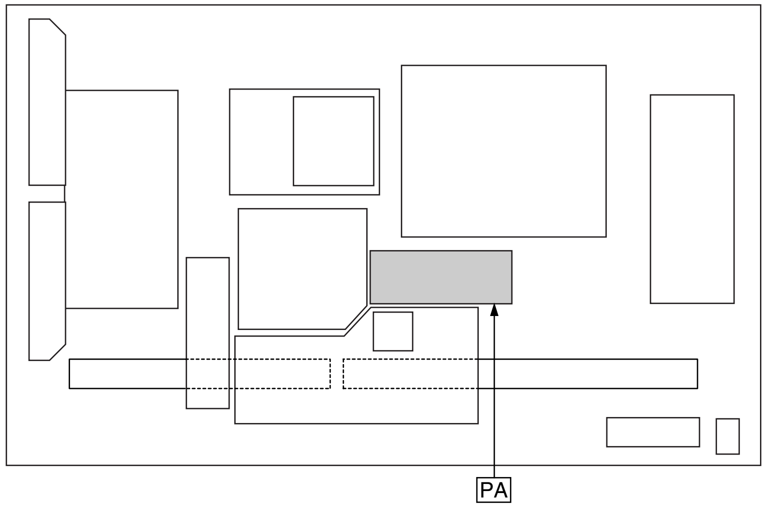
3

PA-BOARD(COMPONENT SIDE)
TNPA3620AD

2

1


PA10
PA7
ZA5601
ZA5602
ZA5604
ZA5603
IC5601
IC5602
IC5603
L5615
L5609
L5605
L5610
L5614
L5616
L5612
Q5601
Q5603
Q5605
Q5606
Q5612
Q5614
Q5642
Q5643
Q5604
Q5644
Q5641
PA20
PA30
TP5617
TP5616
TP5615
TNPA3620
ORDER NO.
1
PA



Parts Location

PA-BOARD			
IC		**TP**	
IC5601	B-2	TP5601	C-4
IC5602	D-2	TP5603	C-5
IC5603	E-2	TP5604	C-4
TRANSISTOR		TP5605	C-5
Q5601	C-2	TP5608	C-5
Q5602	D-5	TP5609	C-5
Q5603	A-2	TP5621	C-5
Q5604	E-1	TP16V	E-5
Q5605	A-2	TP30V	E-5
Q5606	A-2	TPB5V	E-4
Q5607	C-5	TPM25V	E-5
Q5609	E-1	TPM33V	E-5
Q5610	E-1	TPM5V	E-5
Q5612	A-2	TPM9V	E-5
Q5613	D-1	TPS12V	E-5
Q5614	E-3	TPS33V	E-5
Q5641	E-1	TPS5V	E-4
Q5642	B-1	TPS9V	E-5
Q5643	E-1	TPW12V	E-4
Q5644	D-1		

A B C D E F G H I

6

5

4

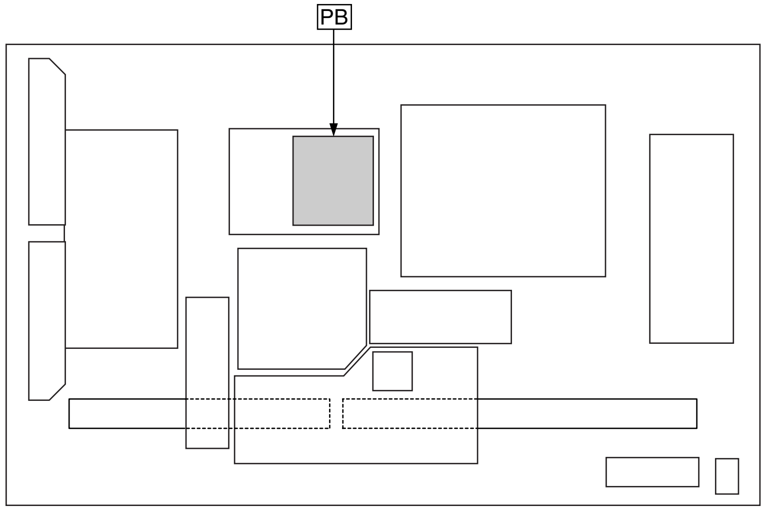
3

2

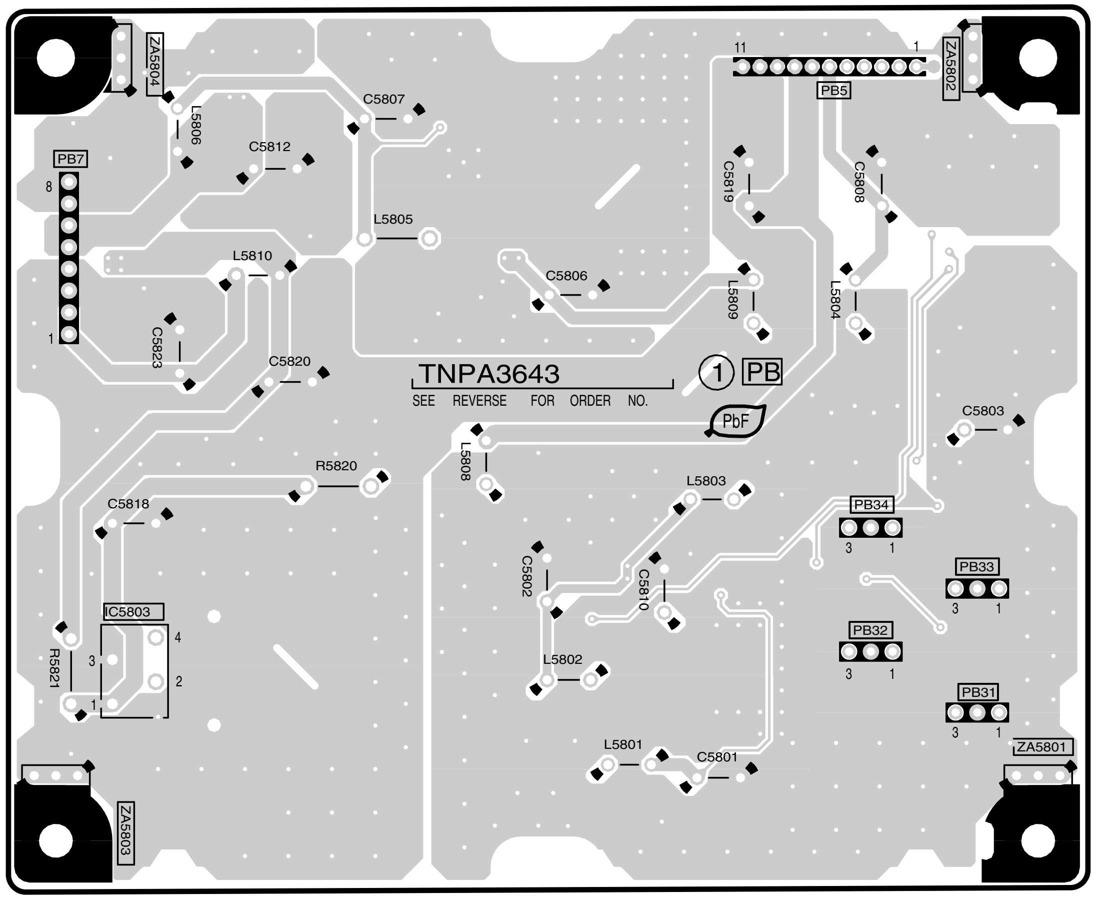
1

Parts Location

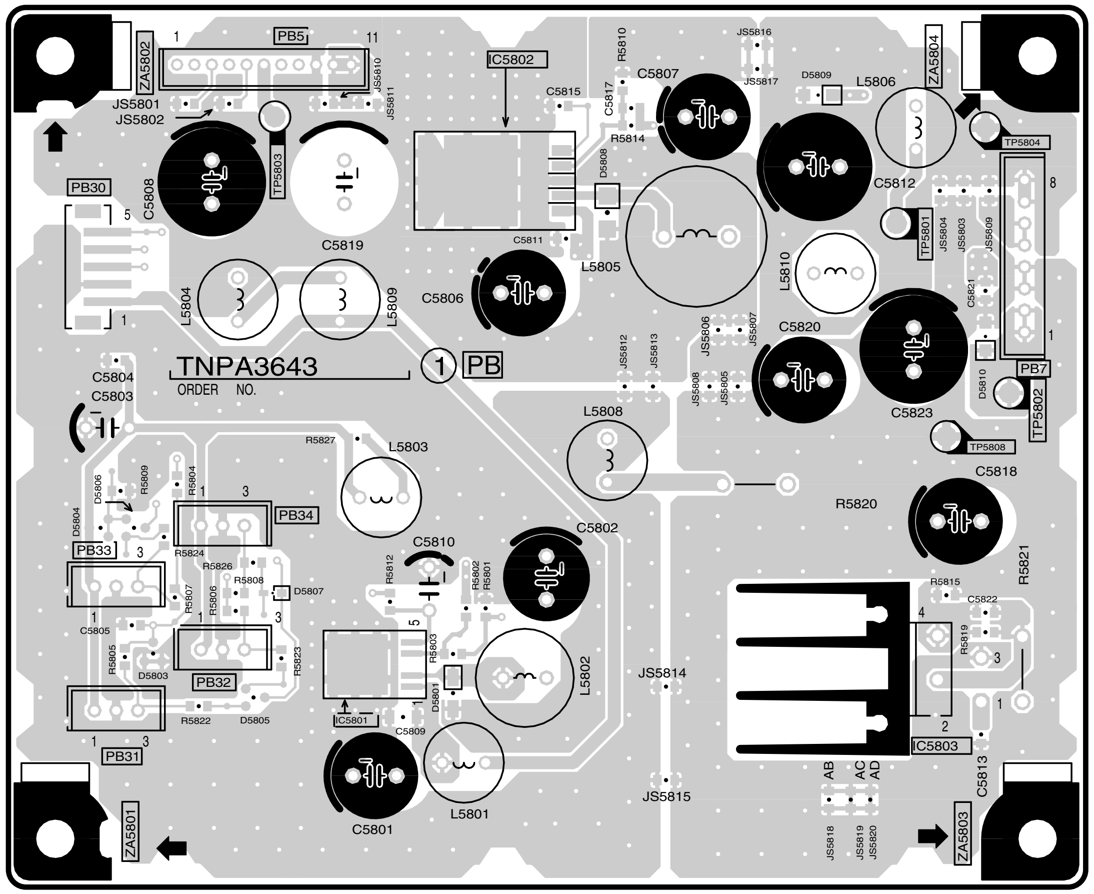
PB-BOARD			
IC		TP	
IC5801	F-1	TP5801	H-4
IC5802	G-4	TP5802	H-3
IC5803	H-1	TP5803	F-3
		TP5804	H-4
		TP5808	H-3



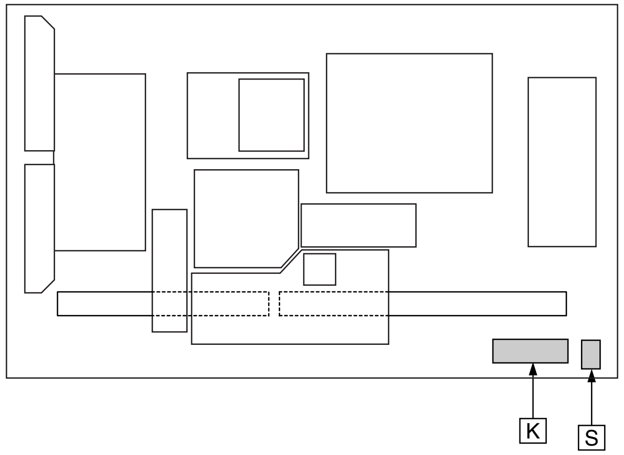
PB-BOARD(FOIL SIDE)
TNPA3643


ZA5804
PB7
8
1
L5806
C5807
C5812
L5805
L5810
C5823
C5820
C5806
C5819
L5809
C5808
L5804
PB5
11
1
ZA5802
TNPA3643
① PB
SEE REVERSE FOR ORDER NO.
PbF
C5803
L5808
R5820
C5818
L5803
PB34
3 1
PB33
C5802
C5810
IC5803
R5821
PB32
L5802
PB31
L5801
C5801
ZA5801
ZA5803

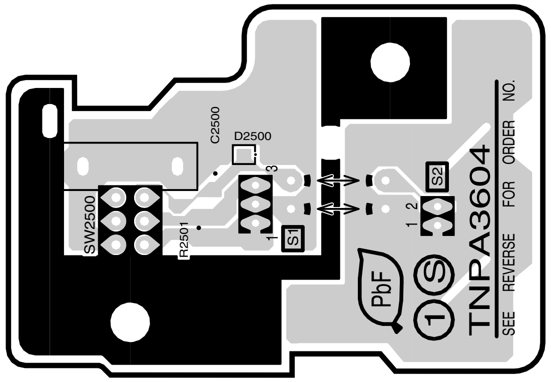
PB-BOARD(COMPONENT SIDE)
TNPA3643


ZA5802
PB5
1
11
IC5802
R5810
C5807
JS5816
D5809
L5806
ZA5804
JS5801
JS5802
C5815
C5817
R5814
TP5804
PB30
C5808
TP5803
C5819
D5808
C5812
C5811
L5805
L5810
TP5801
C5806
L5804
L5809
C5820
PB7
8
1
TNPA3643
ORDER NO.
① PB
C5804
C5803
C5823
TP5802
L5808
TP5808
R5827
L5803
C5818
R5820
PB34
PB33
C5810
C5802
R5821
D5807
R5815
C5822
C5805
PB32
IC5801
C5809
L5802
JS5814
IC5803
PB31
L5801
C5801
JS5815
ZA5801
ZA5803
C5813
AB
AC
AD
JS5818
JS5819
JS5820

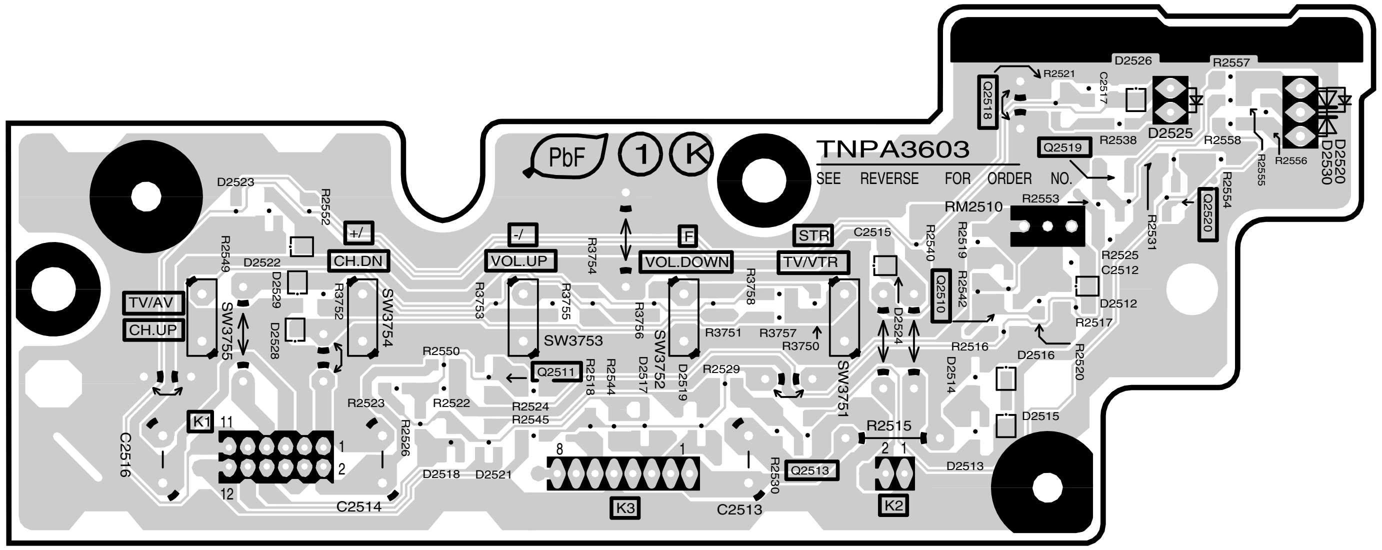
A B C D E F G H I



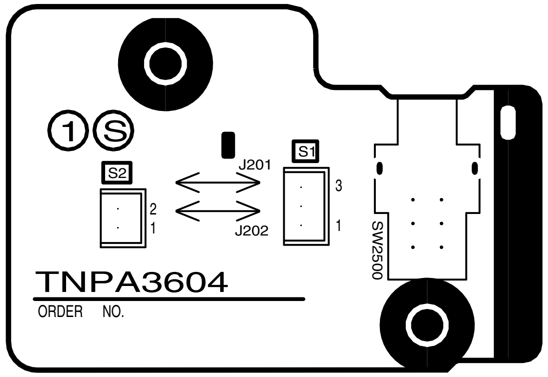
S-BOARD (FOIL SIDE)
TNPA3604


SW2500
C2500
D2500
R2501
S1
S2
PbF
TNPA3604
SEE REVERSE FOR ORDER NO.

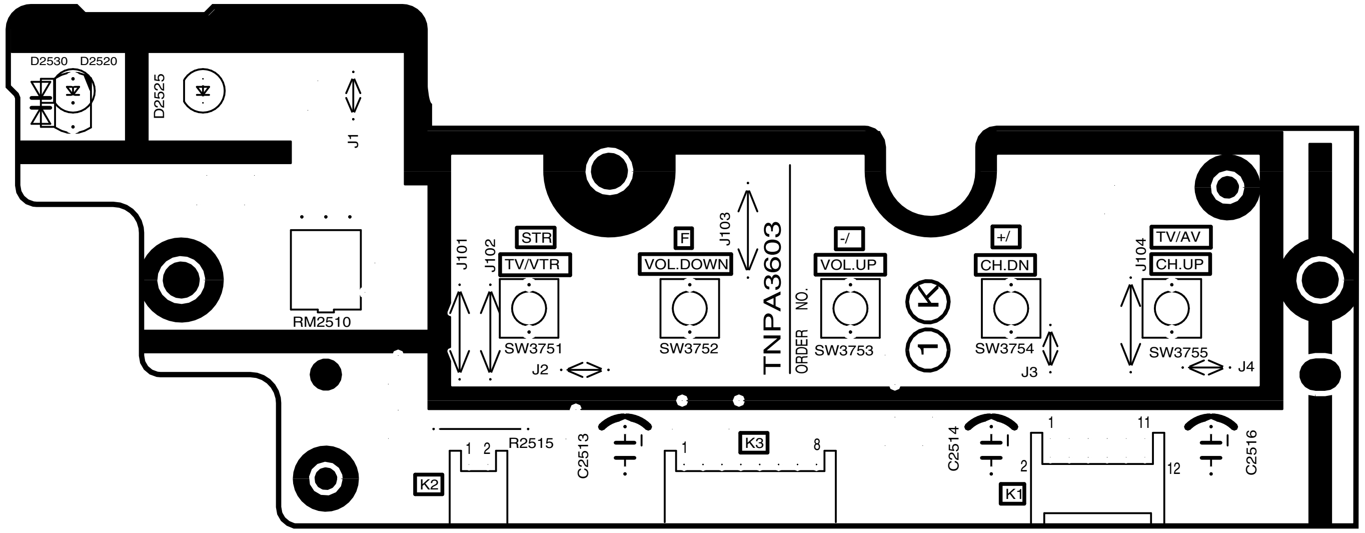
K-BOARD (FOIL SIDE)
TNPA3603


TNPA3603
SEE REVERSE FOR ORDER NO.
PbF
TV/AV
CH.UP
CH.DN
+/
VOL.UP
-/
VOL.DOWN
F
TV/VTR
STR
SW3755
SW3754
SW3753
SW3752
SW3751
RM2510
Q2510
Q2511
Q2513
Q2518
Q2519
Q2520
D2525
D2520
D2530
K1
K2
K3
C2513
C2514
C2516
R2515

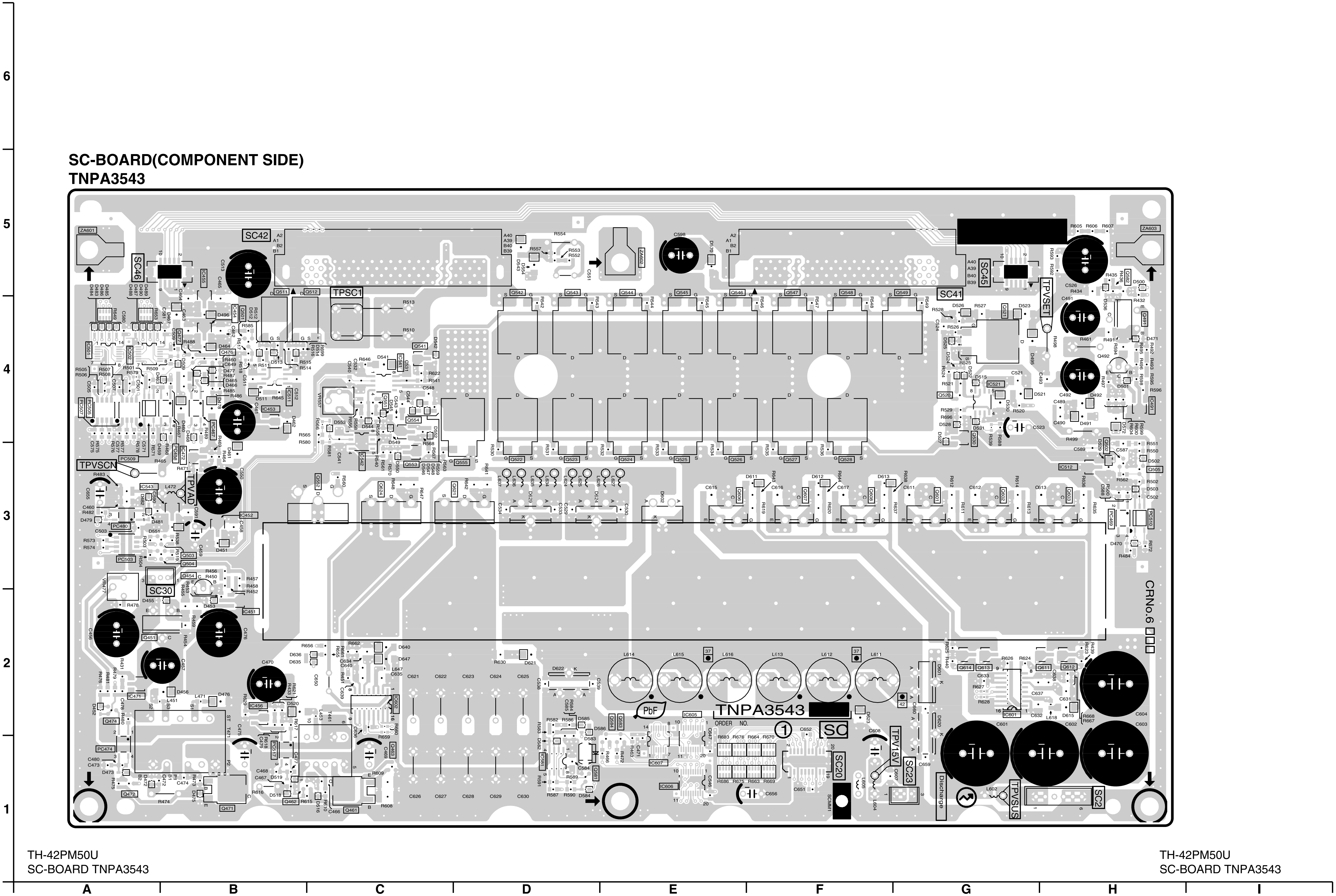
S-BOARD (COMPONENT SIDE)
TNPA3604


S1
S2
J201
J202
SW2500
TNPA3604
ORDER NO.

K-BOARD (COMPONENT SIDE)
TNPA3603


D2530
D2520
D2525
J1
RM2510
J101
J102
J103
J104
STR
TV/VTR
F
VOL.DOWN
-/
VOL.UP
+/
CH.DN
TV/AV
CH.UP
SW3751
SW3752
SW3753
SW3754
SW3755
J2
J3
J4
TNPA3603
ORDER NO.
R2515
K2
C2513
K3
C2514
K1
C2516

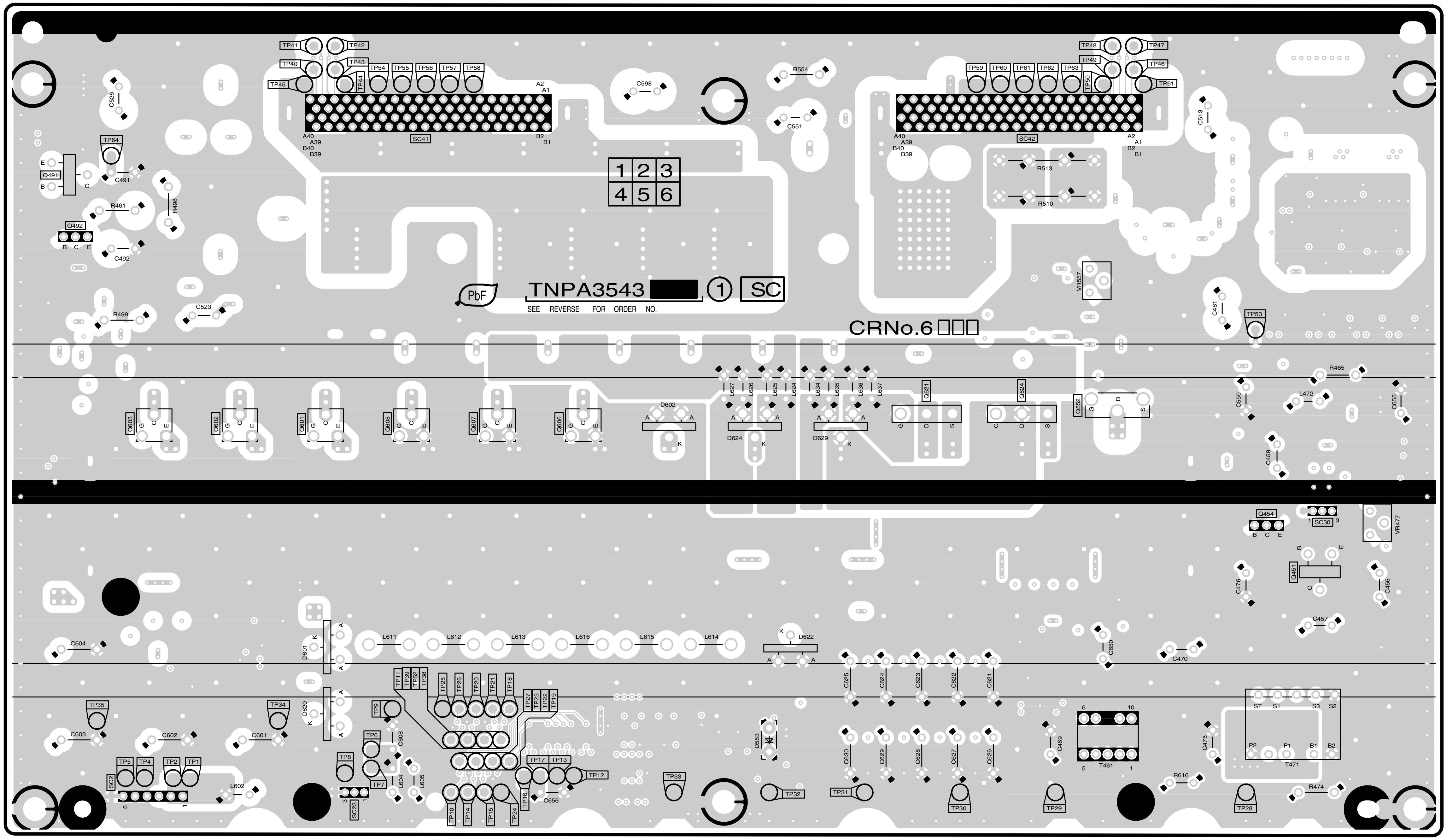
SC-BOARD(COMPONENT SIDE)
TNPA3543


6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
ZA601
ZA602
ZA603
SC42
SC46
SC45
SC41
TPSC1
TPVSET
TPVSCN
TPVAD
SC30
TNPA3543
PbF
ORDER NO.
①
SC
SC20
SC23
SCMM1
TPV15V
Discharge
TPVSUS
SC2
CRNo.6

TH-42PM50U
SC-BOARD TNPA3543

TH-42PM50U
SC-BOARD TNPA3543

SC-BOARD(FOIL SIDE)
TNPA3543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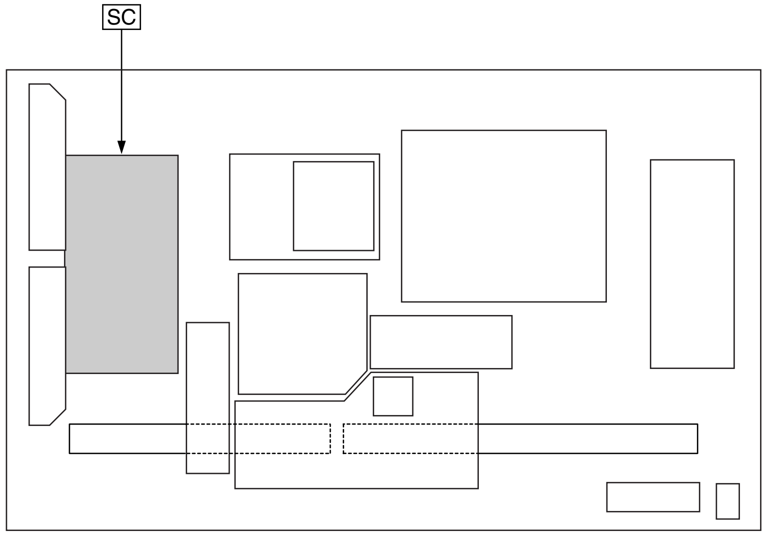
TP42
TP40
TP43
TP45
TP44
TP54
TP55
TP56
TP57
TP58
A2
A1
A40
A39
B40
B39
SC41
B2
B1
C598
R554
C551
TP59
TP60
TP61
TP62
TP63
TP50
TP48
TP47
TP49
TP46
TP51
SC42
C513
R513
R510
C526
TP64
Q491
E
B
C
C491
R461
R498
Q492
B C E
C492
1 2 3
4 5 6
PbF
TNPA3543
①
SC
SEE REVERSE FOR ORDER NO.
CRNo.6
VR557
C461
TP53
R499
C523
R465
L472
C550
C655
Q603
Q602
Q601
Q608
Q607
Q606
G
C
E
D602
A
K
L627
L626
L625
L624
L634
L635
L636
L637
D624
D629
Q621
Q624
Q552
G
D
S
C459
Q454
B C E
SC30
1
3
VR477
Q451
C476
C456
C457
C604
D601
L611
L612
L613
L616
L615
L614
D622
C650
C470
TP11
TP39
TP52
TP38
TP25
TP26
TP20
TP21
TP18
TP27
TP23
TP22
TP19
TP9
TP35
TP34
D620
C603
C602
C601
TP6
C608
TP8
TP7
L604
L605
TP5
TP4
TP2
TP1
SC2
L602
SC23
TP17
TP13
TP12
TP16
C656
TP10
TP14
TP15
TP24
TP33
D583
TP32
TP31
C625
C624
C623
C622
C621
C630
C629
C628
C627
C626
TP30
C469
T461
6
10
5
1
TP29
R616
C475
ST
S1
S3
S2
P2
P1
B1
B2
T471
R474
TP28



Parts Location

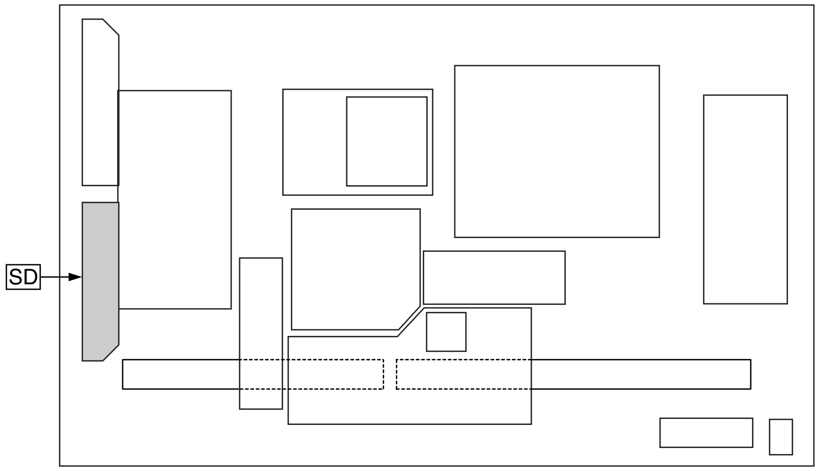
SC-BOARD (FOIL SIDE)					
TRANSISTOR		**TP**			
Q6451	H-2	TP6001	B-1	TP6032	E-1
Q6454	H-3	TP6002	B-1	TP6033	D-1
Q6491	A-4	TP6004	B-1	TP6034	B-1
Q6492	A-4	TP6005	B-1	TP6035	B-1
Q6552	G-3	TP6006	C-1	TP6038	C-1
Q6601	C-3	TP6007	C-1	TP6039	C-1
Q6602	B-3	TP6008	C-1	TP6040	C-5
Q6603	B-3	TP6009	C-1	TP6041	C-5
Q6606	D-3	TP6010	C-1	TP6042	C-5
Q6607	C-3	TP6011	C-1	TP6043	C-5
Q6608	C-3	TP6012	D-1	TP6044	C-5
Q6621	F-3	TP6013	D-1	TP6045	C-5
Q6624	F-3	TP6014	C-1	TP6046	G-5
		TP6015	C-1	TP6047	G-5
		TP6016	D-1	TP6048	G-5
		TP6017	D-1	TP6049	G-5
		TP6018	C-1	TP6050	G-5
		TP6019	C-1	TP6051	G-5
		TP6020	C-1	TP6052	C-1
		TP6021	C-1	TP6053	G-3
		TP6022	C-1	TP6054	C-5
		TP6023	C-1	TP6055	C-5
		TP6024	C-1	TP6056	C-5
		TP6025	C-1	TP6057	C-5
		TP6026	C-1	TP6058	C-5
		TP6027	C-1	TP6059	F-5
		TP6028	G-1	TP6060	F-5
		TP6029	F-1	TP6061	F-5
		TP6030	F-1	TP6062	F-5
		TP6031	E-1	TP6063	F-5
				TP6064	B-4

Parts Location

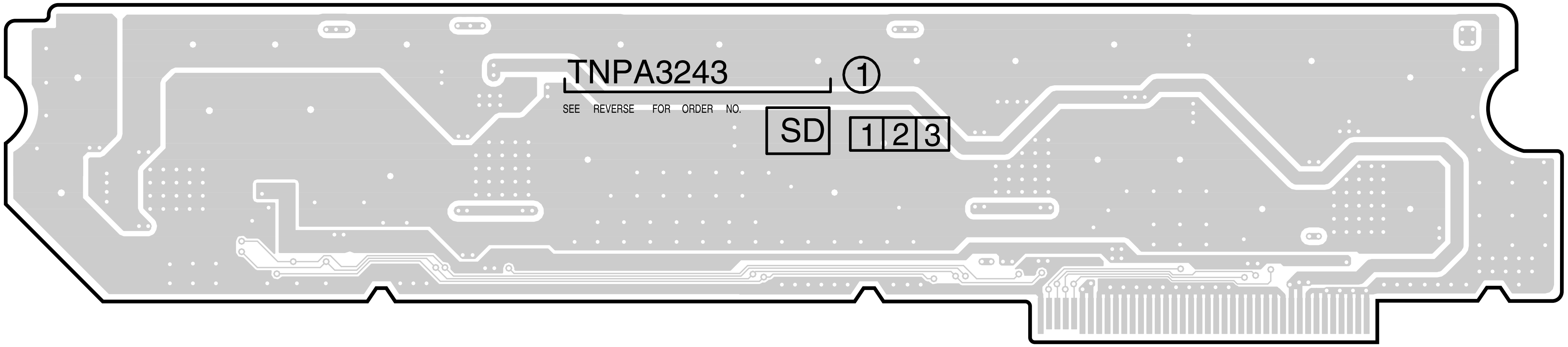
SC-BOARD (COMPONENT SIDE)							
IC		**TRANSISTOR**				**TP**	
IC6451	B-2	Q6451	A-2	Q6541	C-4	TPSC1	C-5
IC6452	B-3	Q6454	B-3	Q6542	D-4	TPV15V	F-1
IC6453	B-4	Q6461	C-1	Q6543	D-4	TPVAD	B-3
IC6454	B-4	Q6462	B-1	Q6544	E-4	TPVSCN	A-3
IC6455	B-5	Q6463	C-1	Q6545	E-4	TPVSET	G-5
IC6456	B-2	Q6471	B-1	Q6546	E-4	TPVSUS	G-1
IC6471	A-2	Q6472	A-1	Q6547	F-4		
IC6472	B-3	Q6474	A-2	Q6548	F-4		
IC6491	H-4	Q6476	B-4	Q6549	G-4		
IC6501	A-4	Q6477	B-4	Q6551	C-4		
IC6502	A-4	Q6491	H-4	Q6552	C-3		
IC6511	B-4	Q6492	H-4	Q6553	C-3		
IC6512	H-3	Q6501	B-4	Q6554	C-4		
IC6521	G-4	Q6502	H-3	Q6555	D-3		
IC6541	C-4	Q6503	B-3	Q6581	D-1		
IC6542	C-3	Q6504	B-3	Q6582	H-5		
IC6543	A-3	Q6505	H-3	Q6583	E-2		
IC6581	D-1	Q6511	B-4	Q6584	E-2		
IC6601	G-2	Q6512	B-4	Q6601	G-3		
IC6602	C-2	Q6520	G-4	Q6602	G-3		
IC6605	E-2	Q6521	G-4	Q6603	H-3		
IC6606	E-1	Q6522	D-3	Q6606	E-3		
IC6607	E-1	Q6523	D-3	Q6607	F-3		
		Q6524	E-3	Q6608	F-3		
		Q6525	E-3	Q6611	H-2		
		Q6526	E-3	Q6612	H-2		
		Q6527	F-3	Q6613	G-2		
		Q6528	F-3	Q6614	G-2		
		Q6530	G-4	Q6621	D-3		
				Q6624	C-3		

Parts Location

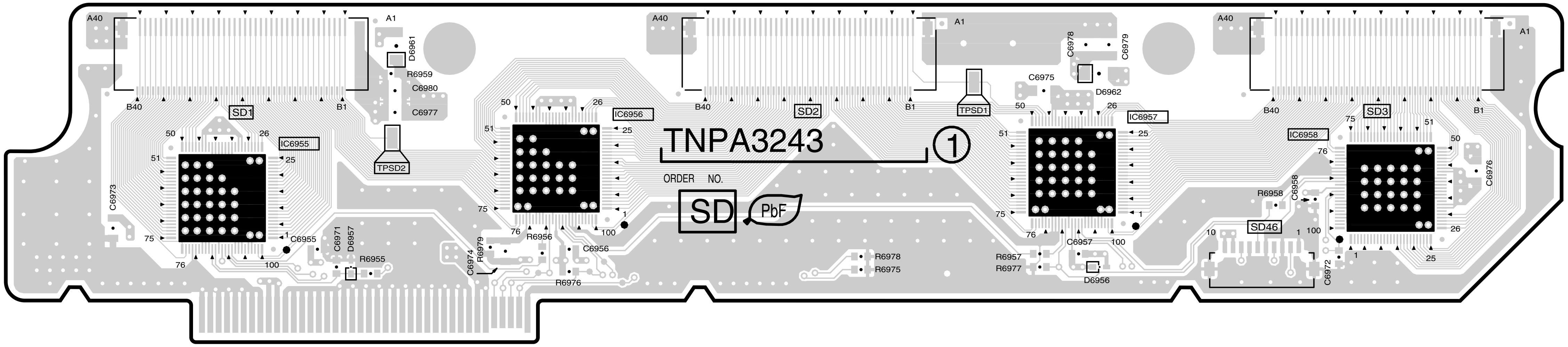
SD-BOARD			
IC		**TRANSISTOR**	
IC6955	B-2	TPSD1	F-2
IC6956	D-2	TPSD2	C-2
IC6957	F-2		
IC6958	G-2		



SD-BOARD (FOIL SIDE)
TNPA3243AB

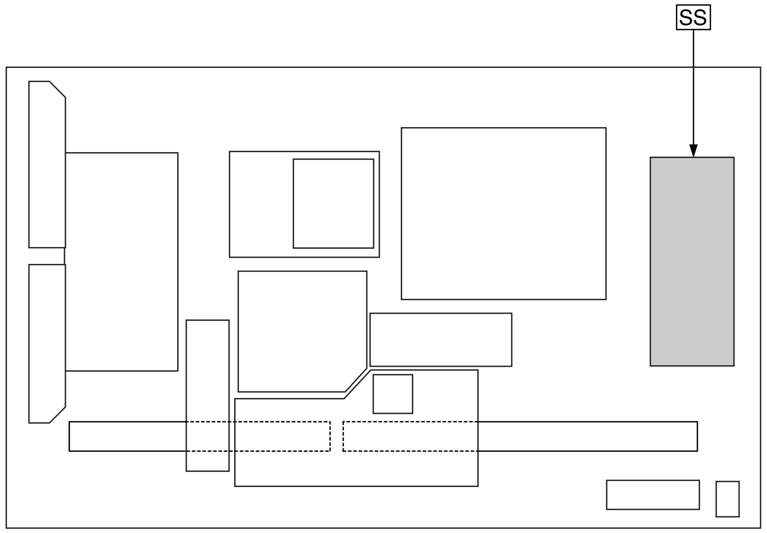

TNPA3243 ①
SEE REVERSE FOR ORDER NO.
SD
1 2 3

SD-BOARD (COMPONENT SIDE)
TNPA3243AB

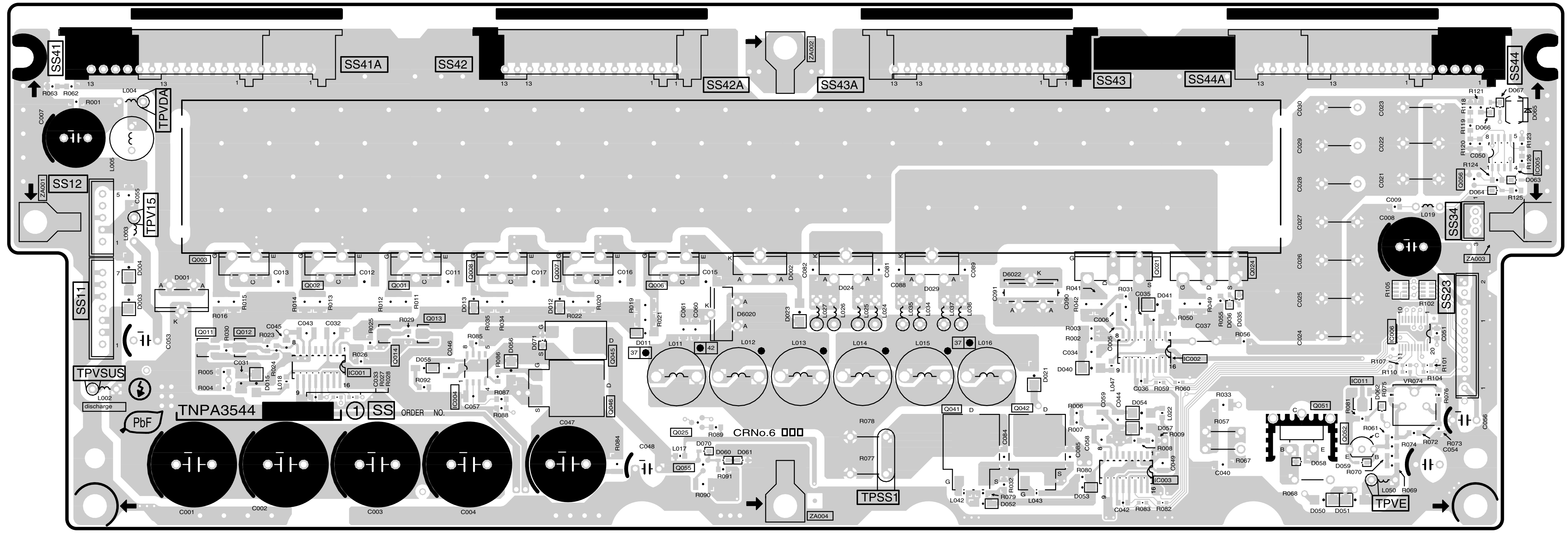

A40
A1
B40
B1
SD1
IC6955
D6961
R6959
C6980
C6977
TPSD2
C6973
C6955
C6971
D6957
R6955
IC6956
C6979
C6974
R6956
C6956
R6976
TNPA3243 ①
ORDER NO.
SD
PbF
SD2
TPSD1
R6978
R6975
C6978
C6979
C6975
D6962
IC6957
R6957
R6977
C6957
D6956
SD3
IC6958
R6958
C6958
SD46
C6976
C6972
50
26
51
25
75
1
76
100

Parts Location

SS-BOARD (COMPONENT SIDE)					
IC		**TRANSISTOR**		Q6045	D-2
IC6001	C-2	Q6001	C-2	Q6046	D-2
IC6002	G-2	Q6002	B-2	Q6051	H-1
IC6003	G-1	Q6003	B-2	Q6052	H-1
IC6004	C-2	Q6006	D-2	Q6055	D-1
IC6005	I-3	Q6007	D-2	Q6056	H-3
IC6006	H-2	Q6008	C-2	**TP**	
IC6011	H-2	Q6011	B-2	TPSS1	E-1
		Q6012	B-2	TPSUS	A-2
		Q6013	C-2	TPV15	B-3
		Q6014	C-2	TPVDA	B-3
		Q6021	G-2	TPVE	H-1
		Q6024	G-2		
		Q6025	D-1		
		Q6041	F-1		
		Q6042	F-1		



SS-BOARD(COMPONENT SIDE)
TNPA3544


SS41
SS41A
SS42
SS42A
SS43A
SS43
SS44A
SS44
ZA002
TPVDA
SS12
ZA001
TPV15
SS11
TPVSUS
discharge
PbF
TNPA3544
1
SS
ORDER NO.
CRNo.6
TPSS1
ZA004
SS34
ZA003
SS23
TPVE
C001
C002
C003
C004
C047
IC001
IC002
IC003
IC011
L011
L012
L013
L014
L015
L016
Q001
Q002
Q003
Q006
Q007
Q008
Q011
Q012
Q013
Q014
Q021
Q024
Q025
Q041
Q042
Q045
Q046
Q051
Q052
Q055
Q056
1
2
3
4
5
6
A
B
C
D
E
F
G
H
I

TH-42PM50U
SS-BOARD TNPA3544

TH-42PM50U
SS-BOARD TNPA3544

6

5

4

3

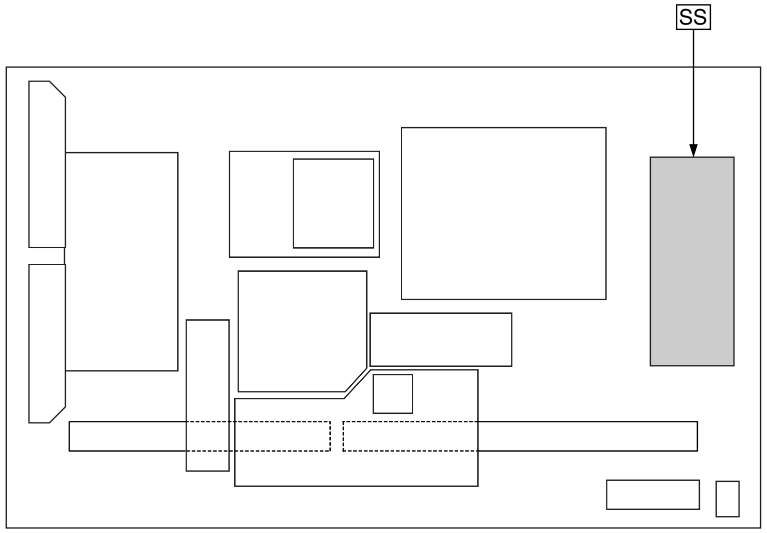
2

1

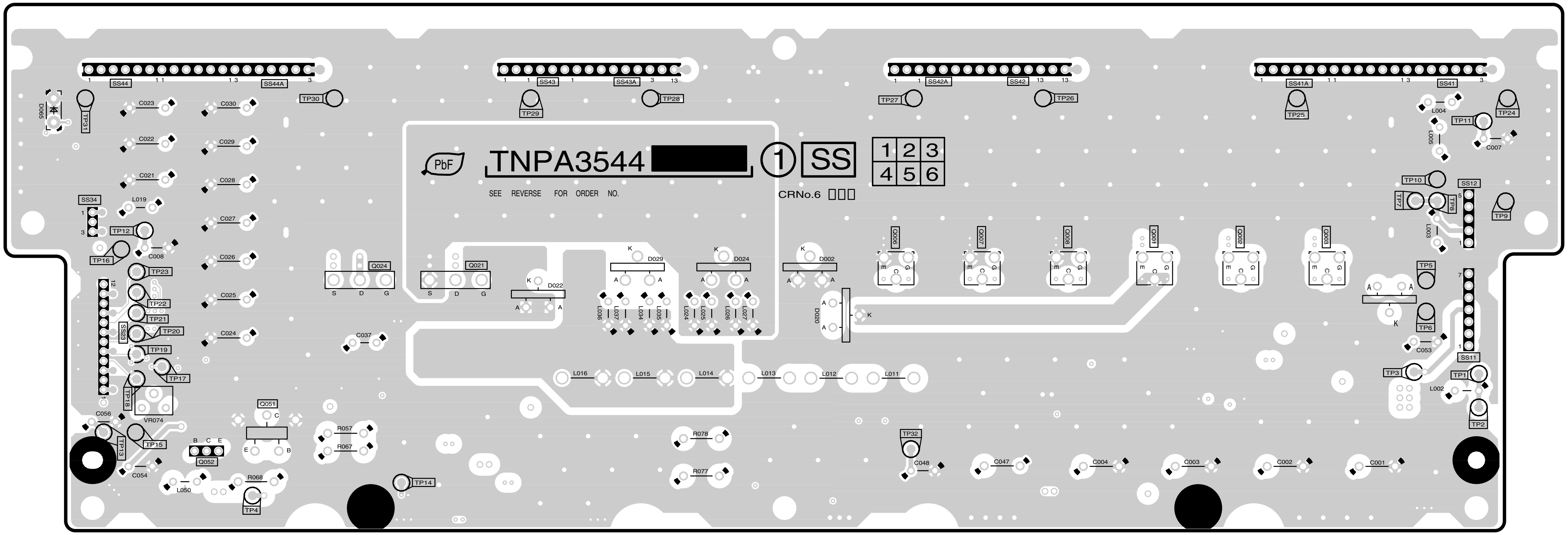
Parts Location

SS-BOARD (FOIL SIDE)

TRANSISTOR		TP		TP6016	B-2
Q6001	G-2	TP6001	H-1	TP6017	B-2
Q6002	G-2	TP6002	H-1	TP6018	B-2
Q6003	H-2	TP6003	H-1	TP6019	B-2
Q6006	E-2	TP6004	B-1	TP6020	B-2
Q6007	F-2	TP6005	H-2	TP6021	B-2
Q6008	F-2	TP6006	H-2	TP6022	B-2
Q6021	C-2	TP6007	H-2	TP6023	B-2
Q6024	C-2	TP6008	H-2	TP6024	I-3
Q6051	B-1	TP6009	H-2	TP6025	G-3
Q6052	B-1	TP6010	H-2	TP6026	F-3
		TP6011	H-3	TP6027	F-3
		TP6012	B-2	TP6028	D-3
		TP6013	A-1	TP6029	D-3
		TP6014	C-1	TP6030	C-3
		TP6015	A-1	TP6031	A-3
				TP6032	E-1



SS-BOARD(FOIL SIDE)
TNPA3544


PbF
TNPA3544
① SS
1 2 3
4 5 6
SEE REVERSE FOR ORDER NO.
CRNo.6
SS44
SS44A
SS43
SS43A
SS42A
SS42
SS41A
SS41
SS34
SS33
SS12
SS11
TP1
TP2
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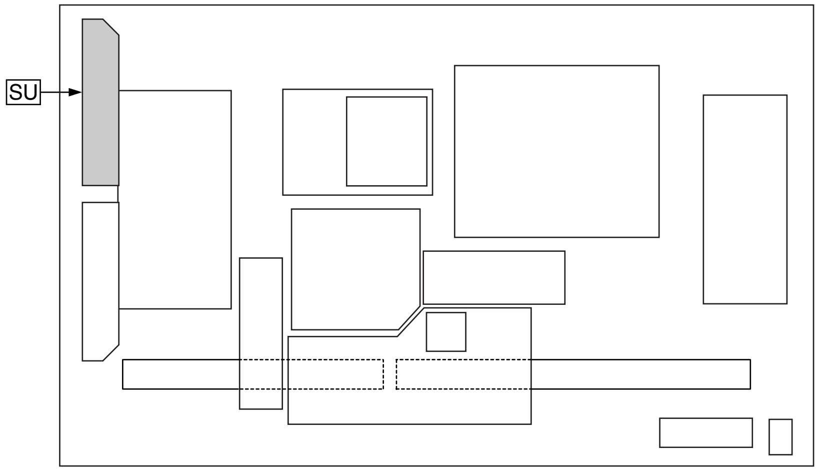
TP4
TP5
TP6
TP7
TP8
TP9
TP10
TP11
TP12
TP13
TP14
TP15
TP16
TP17
TP18
TP19
TP20
TP21
TP22
TP23
TP24
TP25
TP26
TP27
TP28
TP29
TP30
TP31
TP32
Q001
Q002
Q003
Q006
Q007
Q008
Q021
Q024
Q051
Q052
D002
D020
D022
D024
D029
D065
C001
C002
C003
C004
C007
C008
C021
C022
C023
C024
C025
C026
C027
C028
C029
C030
C037
C047
C048
C053
C054
C056
L002
L003
L004
L005
L011
L012
L013
L014
L015
L016
L019
L024
L025
L026
L027
L034
L035
L036
L037
L050
R057
R067
R068
R077
R078
VR074
S D G
E C B
K A

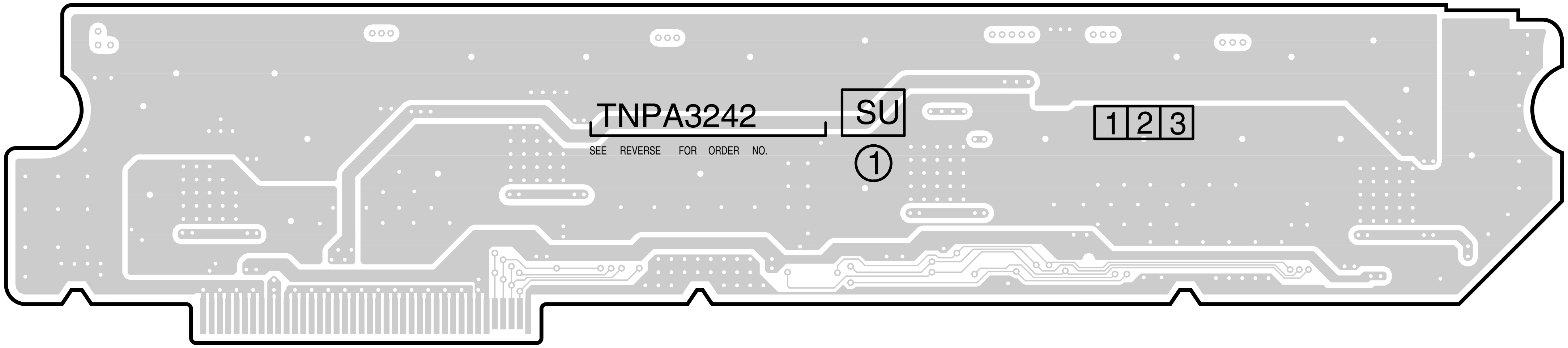
A B C D E F G H I

Parts Location

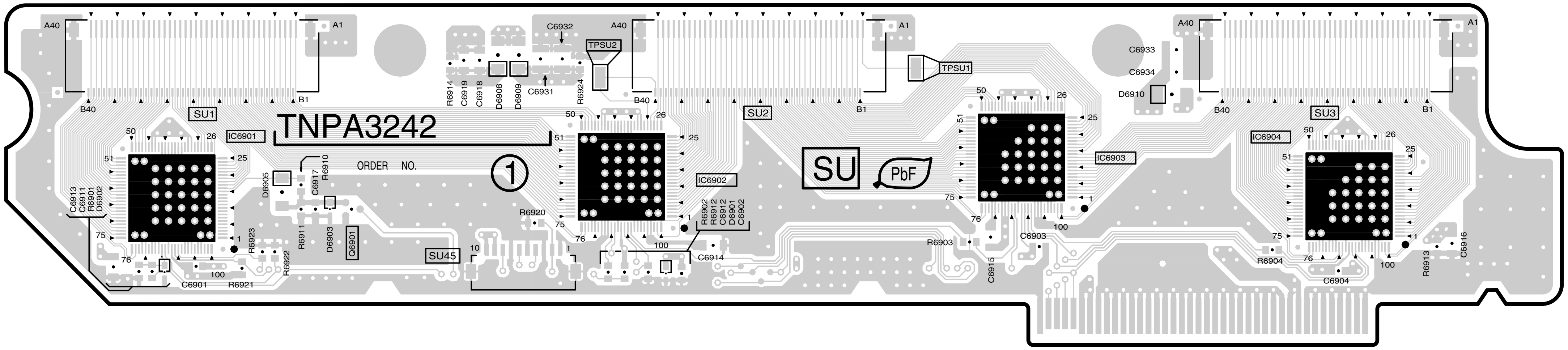
SU-BOARD			
IC		**TRANSISTOR**	
IC6901	B-2	Q6901	C-1
IC6902	D-2	**TP**	
IC6903	F-2	TPSU1	D-2
IC6904	G-2	TPSU2	E-2



SU-BOARD (FOIL SIDE)
TNPA3242AB


TNPA3242
SEE REVERSE FOR ORDER NO.
SU
①
1 2 3

SU-BOARD (COMPONENT SIDE)
TNPA3242AB


A40
A1
B40
B1
SU1
IC6901
TNPA3242
ORDER NO.
①
C6932
TPSU2
R6914
C6919
C6918
D6908
D6909
C6931
R6924
SU2
TPSU1
IC6902
SU
PbF
C6933
C6934
D6910
IC6903
SU3
IC6904
C6913
C6911
R6901
D6902
D6905
C6917
R6910
R6911
D6903
Q6901
R6923
R6922
C6901
R6921
SU45
R6920
C6914
R6902
R6912
D6901
D6904
C6902
R6903
C6903
C6915
R6904
C6904
R6913
C6916
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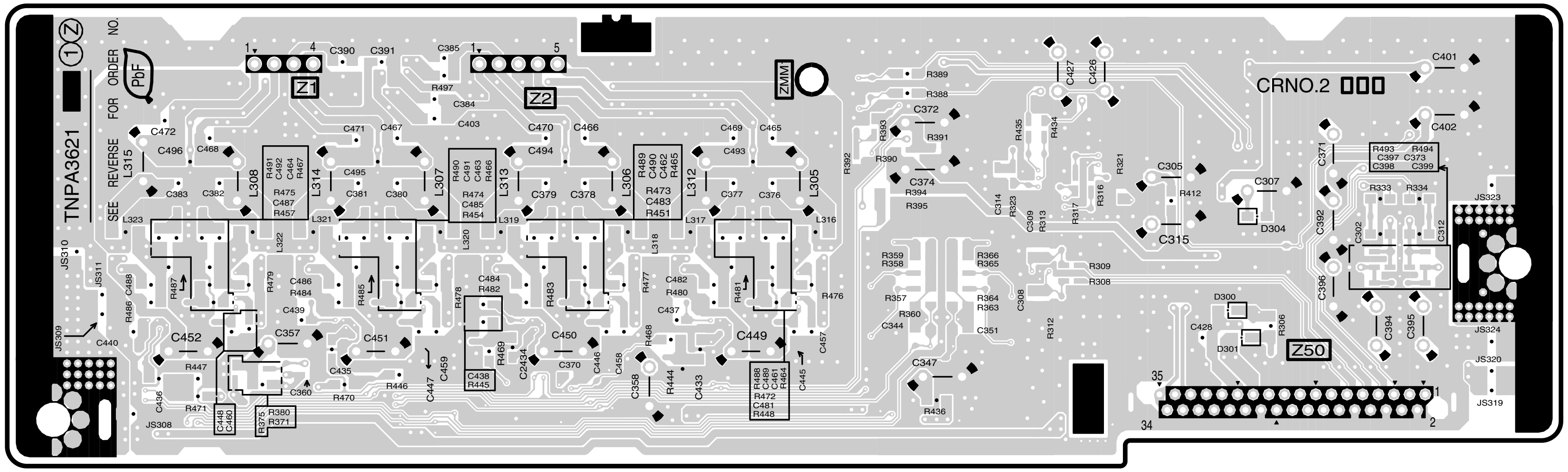
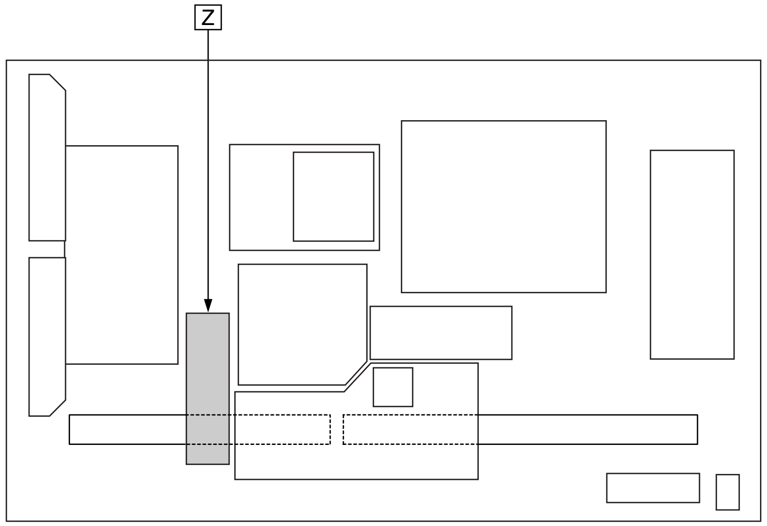
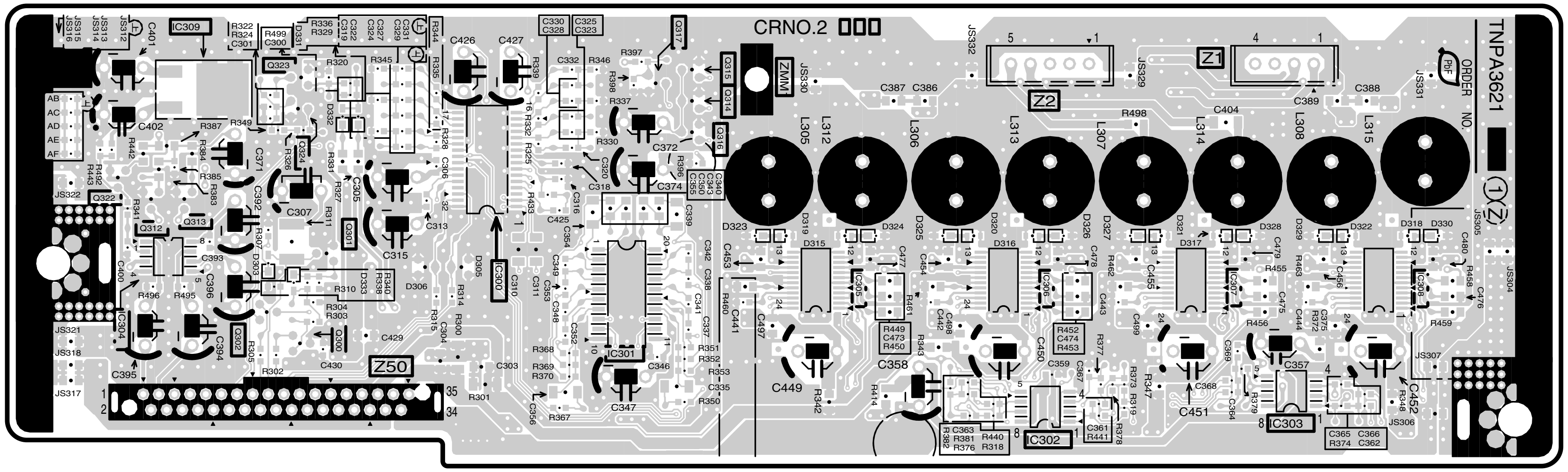
51
75
76
100
1
10

Z-BOARD (FOIL SIDE)
TNPA3621AB


TNPA3621
SEE REVERSE FOR ORDER NO.
PbF
Z1
Z2
ZMM
CRNO.2
Z50
35
34
1
2



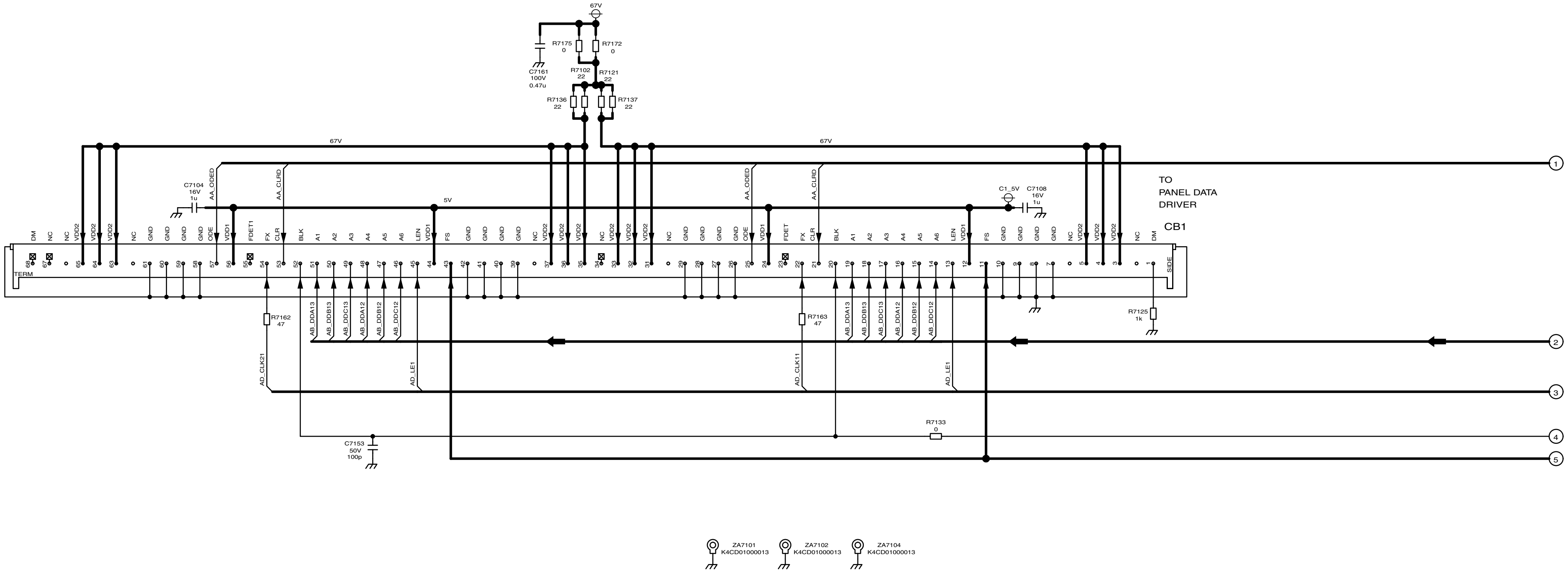
Z-BOARD (COMPONENT SIDE)
TNPA3621AB


CRNO.2
ZMM
Z1
Z2
Z50
TNPA3621
ORDER NO.
PbF
IC300
IC301
IC302
IC303
IC309
1
2
35
34

Parts Location

Z-BOARD			
IC		TRANSISTOR	
IC2300	C-2	Q2300	B-2
IC2301	C-2	Q2301	B-2
IC2302	E-2	Q2302	B-2
IC2303	F-2	Q2312	A-2
IC2304	A-2	Q2313	B-2
IC2305	D-2	Q2314	D-3
IC2306	E-2	Q2315	D-3
IC2307	E-2	Q2316	D-3
IC2308	F-2	Q2317	C-3
IC2309	A-3	Q2322	A-2
		Q2323	B-3
		Q2324	B-3

C1-BOARD TNPA3545 (1/2)


67V
R7175
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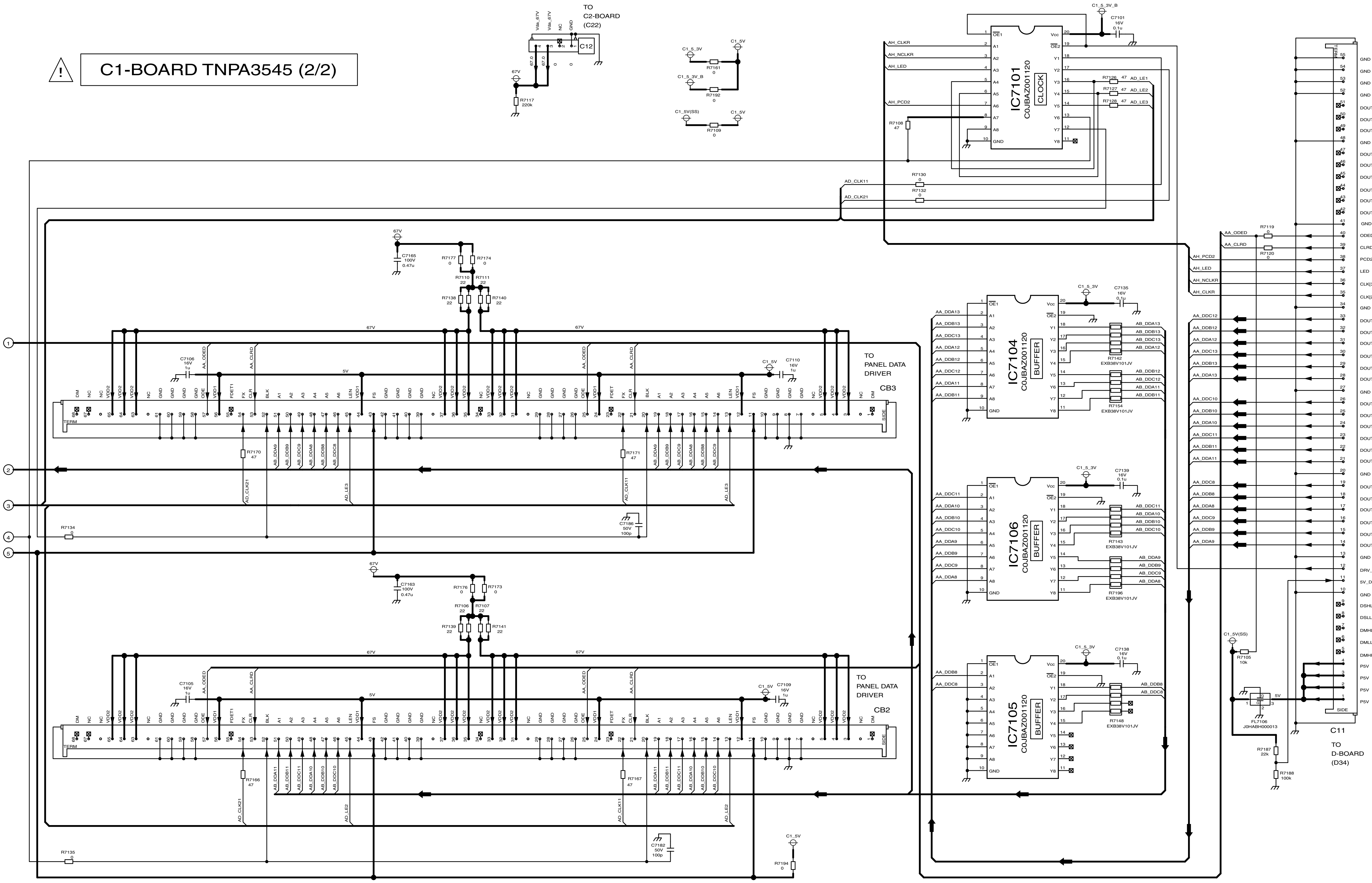
R7172
0
C7161
100V
0.47u
R7102
22
R7121
22
R7136
22
R7137
22
67V
67V
5V
C7104
16V
1u
AA_ODED
AA_CLRD
AA_ODED
AA_CLRD
C1_5V
C7108
16V
1u
TO
PANEL DATA
DRIVER
CB1
DM
NC
NC
VDD2
VDD2
VDD2
NC
GND
GND
GND
GND
ODE
VDD1
FDET1
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
VDD1
FS
GND
GND
GND
GND
NC
VDD2
VDD2
VDD2
NC
VDD2
VDD2
VDD2
NC
GND
GND
GND
GND
ODE
VDD1
FDET
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
VDD1
FS
GND
GND
GND
GND
NC
VDD2
VDD2
VDD2
NC
DM
TERM
SIDE
R7162
47
AB_DDA13
AB_DDB13
AB_DDC13
AB_DDA12
AB_DDB12
AB_DDC12
AD_CLK21
AD_LE1
R7163
47
AB_DDA13
AB_DDB13
AB_DDC13
AB_DDA12
AB_DDB12
AB_DDC12
AD_CLK11
AD_LE1
R7125
1k
R7133
0
C7153
50V
100p
①
②
③
④
⑤
ZA7101
K4CD01000013
ZA7102
K4CD01000013
ZA7104
K4CD01000013

C1-BOARD TNPA3545 (2/2)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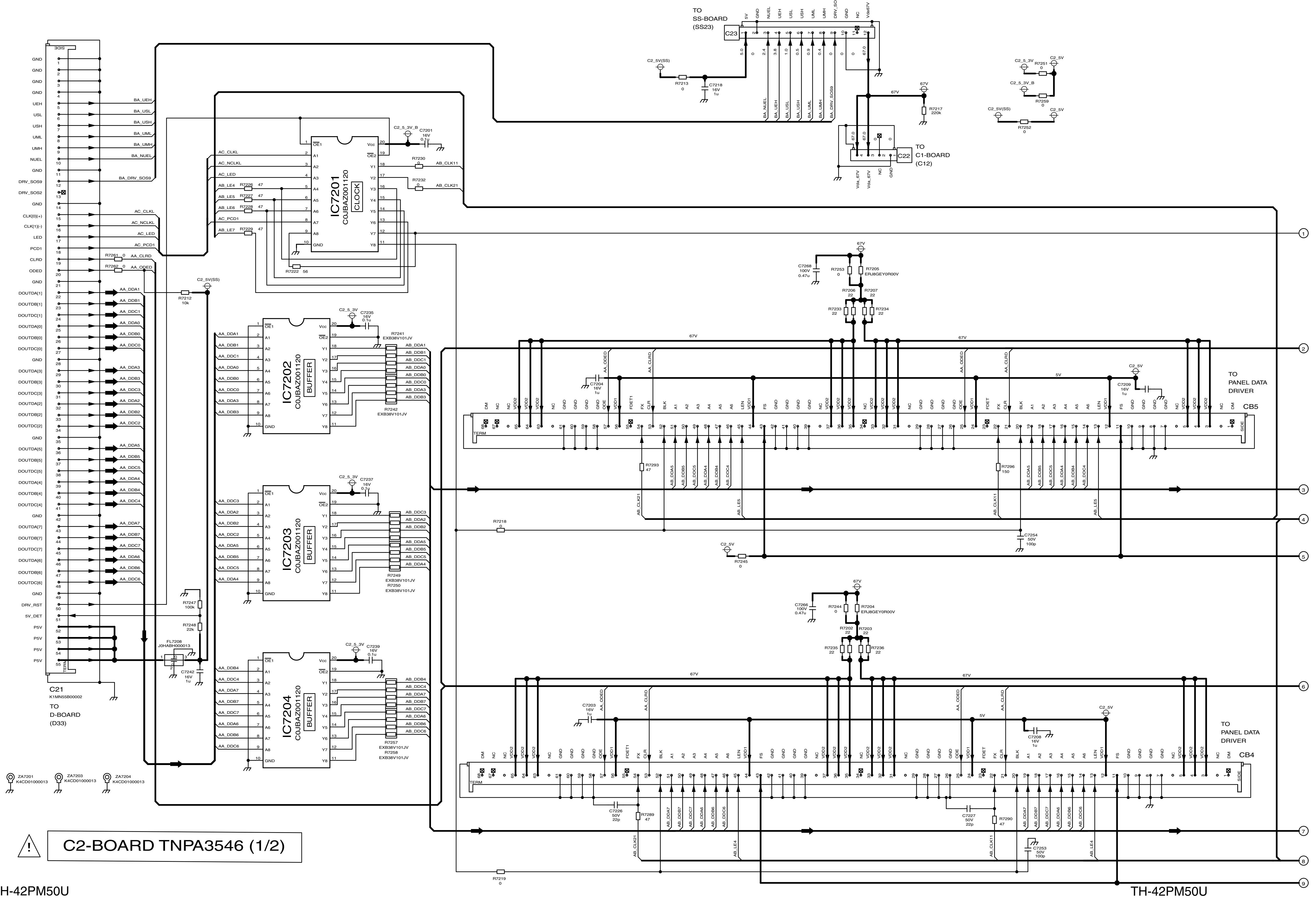
C2-BOARD
(C22)
C12
67V
R7117
220k
C1_5_3V
C1_5V
R7161
0
C1_5_3V_B
R7192
0
C1_5V(SS)
R7109
0
IC7101
C0JBAZ001120
CLOCK
C7101
16V
0.1u
AH_CLKR
AH_NCLKR
AH_LED
AH_PCD2
R7108
47
R7126 47 AD_LE1
R7127 47 AD_LE2
R7128 47 AD_LE3
AD_CLK11
AD_CLK21
R7130
0
R7132
0
IC7104
C0JBAZ001120
BUFFER
R7142
EXB38V101JV
R7154
EXB38V101JV
IC7106
C0JBAZ001120
BUFFER
R7143
EXB38V101JV
R7196
EXB38V101JV
IC7105
C0JBAZ001120
BUFFER
R7148
EXB38V101JV
C7165
100V
0.47u
C7163
100V
0.47u
TO
PANEL DATA
DRIVER
CB3
TO
PANEL DATA
DRIVER
CB2
TERM
SIDE
R7170
47
R7171
47
R7166
47
R7167
47
C7186
50V
100p
C7182
50V
100p
R7134
0
R7135
0
R7194
0
C7106
16V
1u
C7110
16V
1u
C7105
16V
1u
C7109
16V
1u
R7119
0
R7120
0
R7105
10k
FL7106
J0HABH000013
R7187
22k
R7188
100k
C11
TO
D-BOARD
(D34)
①
②
③
④
⑤

TH-42PM50U
C1-Board (2 of 2) Schematic Diagram

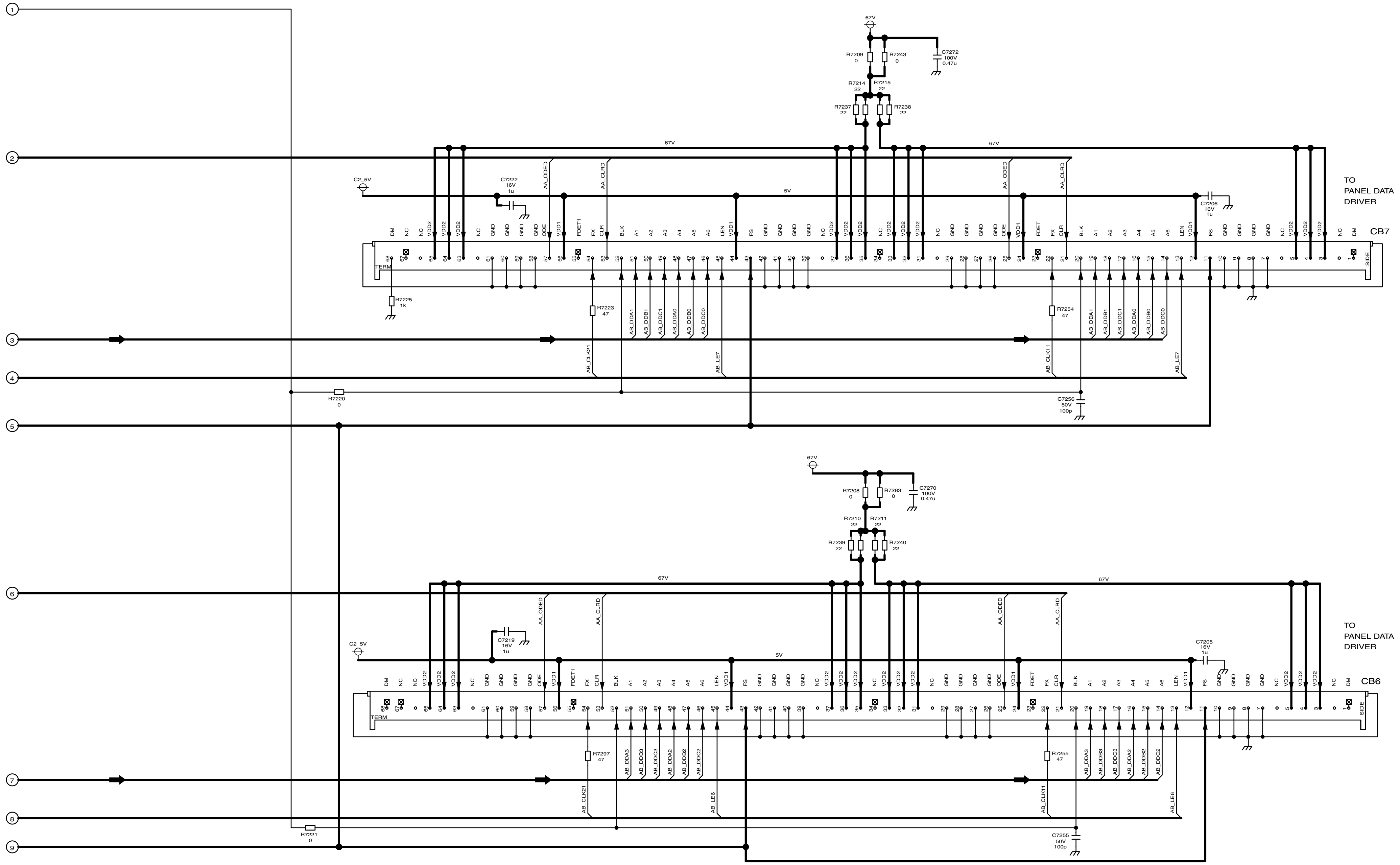

TO
SS-BOARD
(SS23)
C23
5V
GND
NUEL
UEH
USL
USH
UML
UMH
DRV_SOS9
NC
Vda67V
TO
C1-BOARD
(C12)
C22
Vda_67V
NC
GND
IC7201
C0JBAZ001120
CLOCK
IC7202
C0JBAZ001120
BUFFER
IC7203
C0JBAZ001120
BUFFER
IC7204
C0JBAZ001120
BUFFER
OE1
OE2
Vcc
GND
A1
A2
A3
A4
A5
A6
A7
A8
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
C21
K1MN55B00002
TO
D-BOARD
(D33)
GND
UEH
USL
USH
UML
UMH
NUEL
DRV_SOS9
DRV_SOS2
CLK[0](+)
CLK[1](-)
LED
PCD1
CLRD
ODED
DOUTDA[1]
DOUTDB[1]
DOUTDC[1]
DOUTDA[0]
DOUTDB[0]
DOUTDC[0]
DOUTDA[3]
DOUTDB[3]
DOUTDC[3]
DOUTDA[2]
DOUTDB[2]
DOUTDC[2]
DOUTDA[5]
DOUTDB[5]
DOUTDC[5]
DOUTDA[4]
DOUTDB[4]
DOUTDC[4]
DOUTDA[7]
DOUTDB[7]
DOUTDC[7]
DOUTDA[6]
DOUTDB[6]
DOUTDC[6]
DRV_RST
5V_DET
P5V
TERM
BA_UEH
BA_USL
BA_USH
BA_UML
BA_UMH
BA_NUEL
BA_DRV_SOS9
AC_CLKL
AC_NCLKL
AC_LED
AC_PCD1
AA_CLRD
AA_ODED
AB_CLK11
AB_CLK21
AB_LE4
AB_LE5
AB_LE6
AB_LE7
C2_5V(SS)
C2_5_3V
C2_5_3V_B
C2_5V
67V
5V
R7213
C7218
R7217
220k
R7251
R7259
R7252
R7226
R7227
R7228
R7229
47
R7222
56
R7230
R7232
C7201
16V
0.1u
R7212
10k
R7261
R7262
R7241
EXB38V101JV
R7242
EXB38V101JV
R7249
EXB38V101JV
R7250
EXB38V101JV
R7257
EXB38V101JV
R7258
EXB38V101JV
C7235
C7237
C7239
R7247
100k
R7248
22k
FL7208
J0HABH000013
C7242
16V
1u
ZA7201
K4CD01000013
ZA7203
K4CD01000013
ZA7204
K4CD01000013
C7268
100V
0.47u
R7253
R7205
ERJ8GEY0R00V
R7206
R7207
R7233
R7234
22
C7266
R7244
R7204
ERJ8GEY0R00V
R7202
R7203
R7235
R7236
TO
PANEL DATA
DRIVER
CB5
TO
PANEL DATA
DRIVER
CB4
DM
NC
VDD2
GND
ODE
VDD1
FDET1
FX
CLR
BLK
LEN
FS
SIDE
C7204
C7209
C7203
C7208
R7293
R7296
150
R7218
R7219
C7254
50V
100p
C7253
R7245
C7226
50V
22p
C7227
R7289
R7290
AB_DDA5
AB_DDB5
AB_DDC5
AB_DDA4
AB_DDB4
AB_DDC4
AB_DDA7
AB_DDB7
AB_DDC7
AB_DDA6
AB_DDB6
AB_DDC6
1
2
3
4
5
6
7
8
9

C2-BOARD TNPA3546 (1/2)

TH-42PM50U
C2-Board (1 of 2) Schematic Diagram

TH-42PM50U
C2-Board (1 of 2) Schematic Diagram

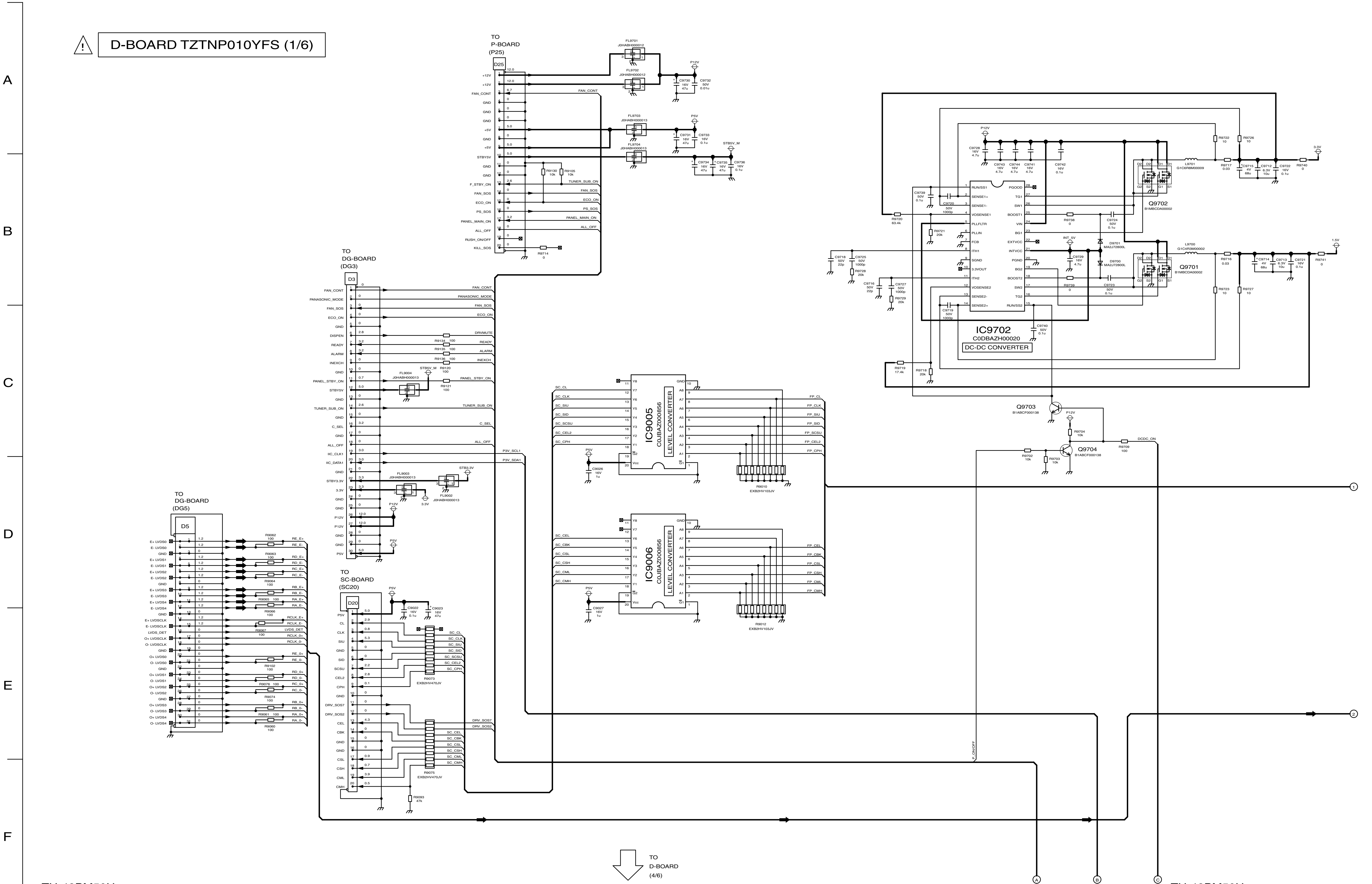
C2-BOARD TNPA3546 (2/2)



67V
R7209 0
R7243 0
C7272 100V 0.47u
R7214 22
R7215 22
R7237 22
R7238 22
67V
C2_5V
C7222 16V 1u
AA_ODED
AA_CLRD
5V
C7206 16V 1u
TO PANEL DATA DRIVER
CB7
DM NC NC VDD2 VDD2 VDD2 NC GND GND GND GND ODE VDD1 FDET1 FX CLR BLK A1 A2 A3 A4 A5 A6 LEN VDD1 FS GND GND GND GND NC VDD2 VDD2 NC VDD2 VDD2 VDD2 NC GND GND GND GND ODE VDD1 FDET FX CLR BLK A1 A2 A3 A4 A5 A6 LEN VDD1 FS GND GND GND GND NC VDD2 VDD2 VDD2 NC DM
TERM
SIDE
R7225 1k
R7223 47
R7254 47
AB_DDA1 AB_DDB1 AB_DDC1 AB_DDA0 AB_DDB0 AB_DDC0
AB_CLK21
AB_LE7
AB_CLK11
R7220 0
C7256 50V 100p
67V
R7208 0
R7283 0
C7270 100V 0.47u
R7210 22
R7211 22
R7239 22
R7240 22
C7219 16V 1u
C7205 16V 1u
CB6
AB_DDA3 AB_DDB3 AB_DDC3 AB_DDA2 AB_DDB2 AB_DDC2
AB_LE6
R7297 47
R7255 47
R7221 0
C7255 50V 100p
1
2
3
4
5
6
7
8
9

TH-42PM50U C2-Board (2 of 2) Schematic Diagram

D-BOARD TZTNP010YFS (1/6)

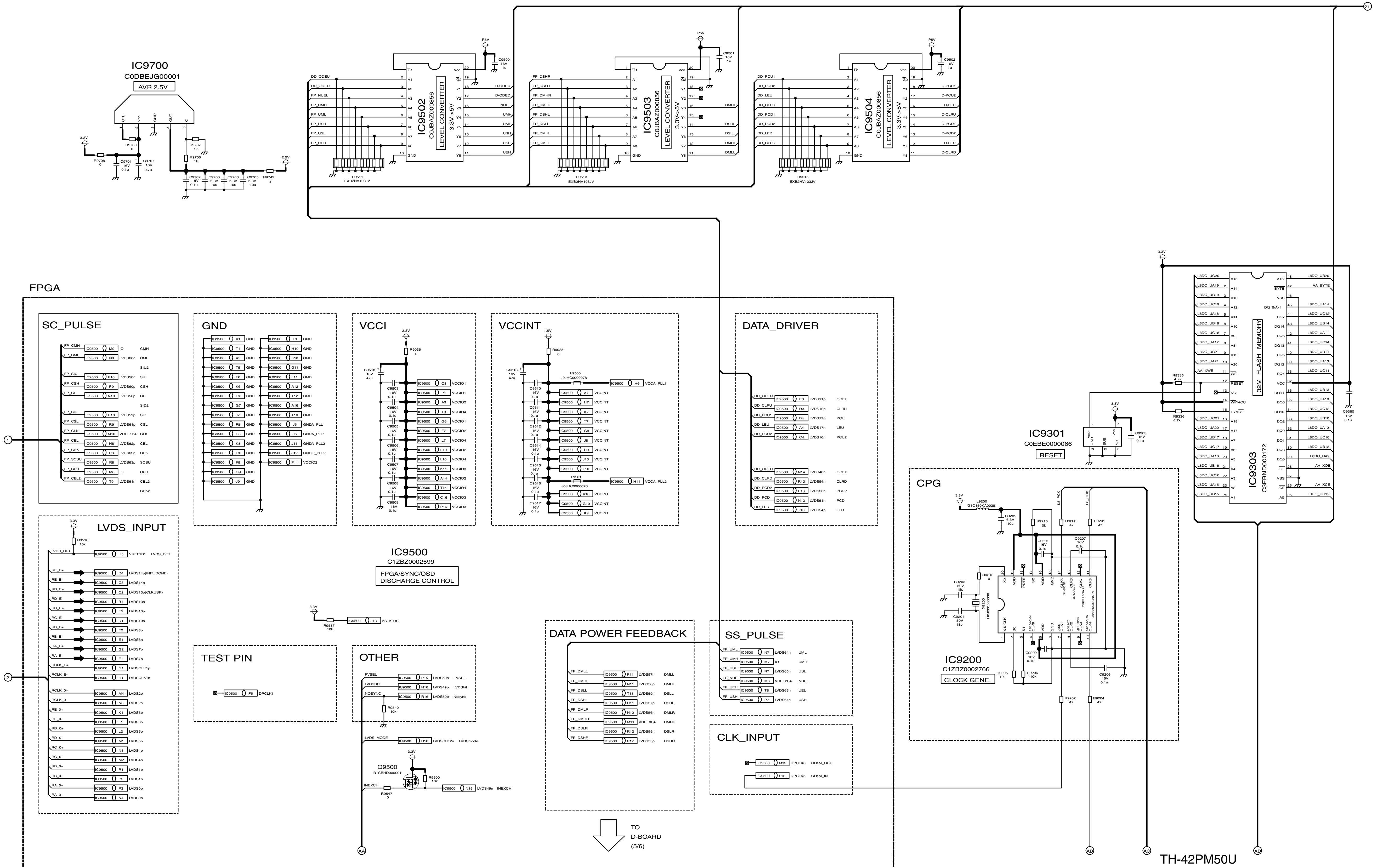


A
B
C
D
E
F
TO P-BOARD (P25)
D25
FL9701 J0HABH000012
FL9702 J0HABH000012
FL9703 J0HABH000013
FL9704 J0HABH000013
P12V
P5V
STBY5V_M
TO DG-BOARD (DG3)
D3
FL9004 J0HABH000013
FL9003 J0HABH000013
FL9002 J0HABH000013
STB3.3V
TO DG-BOARD (DG5)
D5
TO SC-BOARD (SC20)
D20
R9073 EXB2HV470JV
R9075 EXB2HV470JV
IC9005 C0JBAZ000856 LEVEL CONVERTER
R9010 EXB2HV103JV
IC9006 C0JBAZ000856 LEVEL CONVERTER
R9012 EXB2HV103JV
IC9702 C0DBAZH00020 DC-DC CONVERTER
Q9702 B1MBCDA00002
Q9701 B1MBCDA00002
L9701 G1C6R8M00009
L9700 G1C4R3M00002
D9701 MA2J72800L
D9700 MA2J72800L
3.3V
1.5V
Q9703 B1ABCF000138
Q9704 B1ABCF000138
DCDC_ON
F_ON/OFF
TO D-BOARD (4/6)
1
2
3
4
5
6
7
8
9

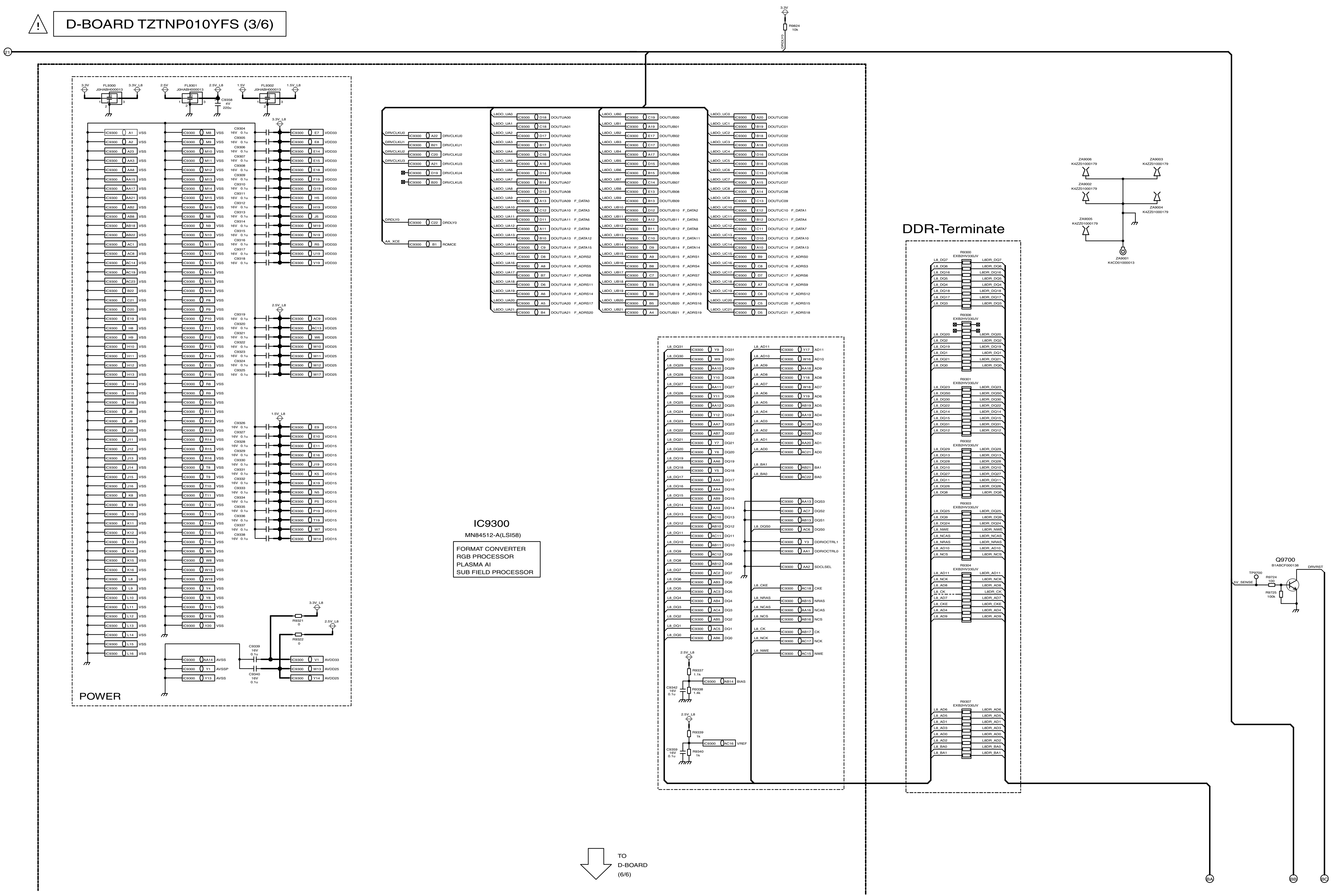
TH-42PM50U
D-Board (1 of 6) Schematic Diagram

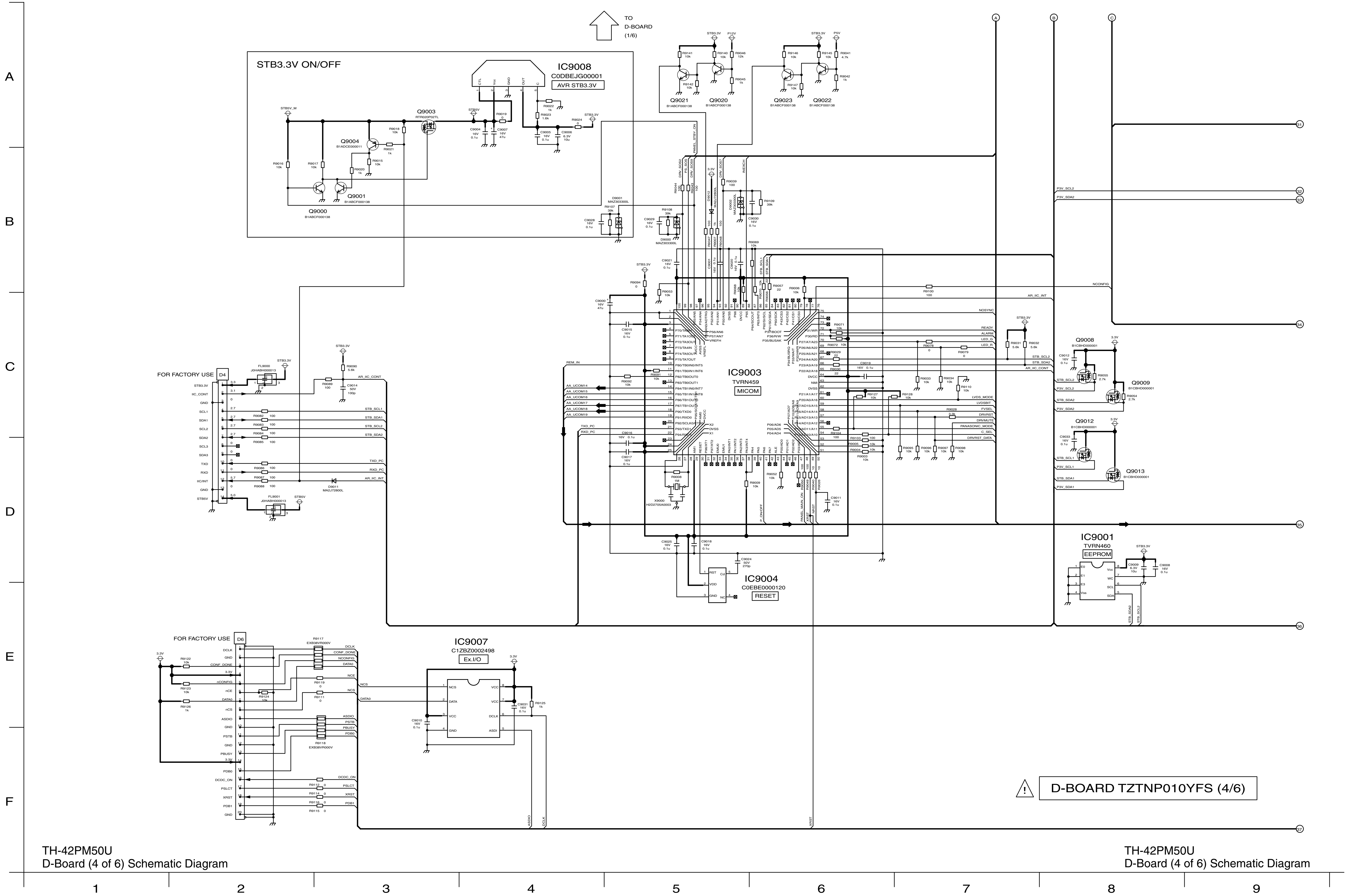
TH-42PM50U
D-Board (1 of 6) Schematic Diagram

D-BOARD TZTNP010YFS (2/6)


IC9700
C0DBEJG00001
AVR 2.5V
IC9502
C0JBAZ000856
LEVEL CONVERTER
3.3V->5V
IC9503
C0JBAZ000856
LEVEL CONVERTER
3.3V->5V
IC9504
C0JBAZ000856
LEVEL CONVERTER
3.3V->5V
R9511
EXB2HV103JV
R9513
EXB2HV103JV
R9515
EXB2HV103JV
P5V
3.3V
2.5V
FPGA
SC_PULSE
GND
VCCI
VCCINT
DATA_DRIVER
LVDS_INPUT
IC9500
C1ZBZ0002599
FPGA/SYNC/OSD
DISCHARGE CONTROL
TEST PIN
OTHER
Q9500
B1CBHD000001
DATA POWER FEEDBACK
SS_PULSE
CLK_INPUT
IC9301
C0EBE0000066
RESET
CPG
IC9200
C1ZBZ0002766
CLOCK GENE.
IC9303
C3FBND000172
32M FLASH MEMORY
TO
D-BOARD
(5/6)
TH-42PM50U
D-Board (2 of 6) Schematic Diagram
10
11
12
13
14
15
16
17
18

⚠ D-BOARD TZTNP010YFS (3/6)


21
3.3V
R9824
10k
DRDLY0
3.3V
FL9300
J0HABH000013
3.3V_L8
2.5V
FL9301
J0HABH000013
2.5V_L8
C9358
4V
220u
1.5V
FL9302
J0HABH000013
1.5V_L8
VSS
VDD33
VDD25
VDD15
AVSS
AVSSP
AVDD33
AVDD25
R9321
0
R9322
0
C9339
16V
0.1u
C9340
16V
0.1u
POWER
DRVCLKU0
DRVCLKU1
DRVCLKU2
DRVCLKU3
DRVCLKU4
DRVCLKU5
DRDLY0
AA_XCE
ROMCE
DOUTUA00
DOUTUB00
DOUTUC00
IC9300
MN84512-A(LSI58)
FORMAT CONVERTER
RGB PROCESSOR
PLASMA AI
SUB FIELD PROCESSOR
TO
D-BOARD
(6/6)
2.5V_L8
R9337
1.1k
R9338
1.4k
C9342
16V
0.1u
BIAS
R9339
1k
R9340
1k
C9359
16V
0.1u
VREF
DQS3
DQS2
DQS1
DQS0
DDRIOCTRL1
DDRIOCTRL0
SDCLSEL
CKE
NRAS
NCAS
NCS
CK
NCK
NWE
DDR-Terminate
R9300
EXB2HV330JV
R9306
EXB2HV330JV
R9301
EXB2HV330JV
R9302
EXB2HV330JV
R9303
EXB2HV330JV
R9304
EXB2HV330JV
R9307
EXB2HV330JV
ZA9006
K4ZZ01000179
ZA9003
K4ZZ01000179
ZA9002
K4ZZ01000179
ZA9004
K4ZZ01000179
ZA9005
K4ZZ01000179
ZA9001
K4CD01000013
Q9700
B1ABCF000138
TP9700
5V_SENSE
R9724
100
R9725
100k
DRVRST
BA
BB
BC


TO D-BOARD (1/6)
STB3.3V ON/OFF
IC9008
C0DBEJG00001
AVR STB3.3V
CTL
Vcc
GND
OUT
C
Q9003
RTR020P02TL
Q9004
B1ADCE000011
Q9001
B1ABCF000138
Q9000
B1ABCF000138
STB5V_M
STB5V
STB3.3V
R9016 10k
R9017 10k
R9018 10k
R9015 10k
R9020 1k
R9021 1k
R9019 0
R9022 1k
R9023 1.6k
R9024 0
C9004 16V 0.1u
C9007 16V 47u
C9005 16V 0.1u
C9006 6.3V 10u
Q9021
B1ABCF000138
Q9020
B1ABCF000138
Q9023
B1ABCF000138
Q9022
B1ABCF000138
P12V
P5V
R9141 10k
R9140 10k
R9046 12k
R9142 10k
R9045 1k
R9146 10k
R9145 10k
R9041 4.7k
R9147 10k
R9042 1k
D9001 MAZ30330L
D9000 MAZ30330L
D9002 MAZ30330L
D9012 MA2J72800L
R9107 39k
R9108 39k
R9109 39k
C9028 16V 0.1u
C9029 16V 0.1u
C9030 16V 0.1u
R9039 100
R9069 10k
R9044 100
R9043 100
R9047 100
R9007 1k
R9048 100
DRV_SOS2
PS_SOS
DRV_SOS9
PANEL_STBY_ON
DRV_SOS7
INEXICH
STB_SCL1
STB_SDA1
IC9003
TVRN459
MICOM
C9000 16V 47u
C9021 16V 0.1u
C9001 16V 0.1u
C9020 16V 0.1u
R9094 0
R9053 10k
R9057 22
R9006 10k
R9068
C9015 16V 0.1u
C9016 16V 0.1u
C9017 16V 0.1u
R9089 100
R9090 5.6k
C9014 50V 100p
R9092 10k
R9091 10k
R9008 1M
X9000
H2D2705A0003
R9052 10k
R9009 10k
C9011 16V 0.1u
C9019 16V 0.1u
R9100 100
R9071 10k
R9072 10k
R9029 22
R9030 22
R9078 0
R9079 0
R9033 10k
R9034 10k
R9110 10k
R9127 10k
R9128 10k
R9028 3.3k
R9104 100
R9103 100
R9005 10k
R9004 10k
R9003 10k
R9095 10k
R9096 10k
R9097 10k
R9098 10k
R9031 5.6k
R9032 5.6k
NCONFIG
AR_IIC_CONT
NOSYNC
READY
ALARM
LED_G
LED_R
STB_SCL2
STB_SDA2
LVDS_MODE
LVDSBIT
FVSEL
DRVRST
DRVMUTE
PANASONIC_MODE
C_SEL
DRVRST_DATA
REM_IN
AA_UCOM14
AA_UCOM15
AA_UCOM16
AA_UCOM17
AA_UCOM18
AA_UCOM19
TXD_PC
RXD_PC
P_ON/OFF
PANEL_MAIN_ON
NRST
XRST
P3V_SCL2
P3V_SDA2
P3V_SCL1
P3V_SDA1
STB_SCL1
STB_SDA1
Q9008
B1CBHD000001
Q9009
B1CBHD000001
Q9012
B1CBHD000001
Q9013
B1CBHD000001
C9012 16V 0.1u
C9033 16V 0.1u
R9055 2.7k
R9054 2.7k
3.3V
IC9001
TVRN460
EEPROM
E0
E1
E2
Vss
Vcc
WC
SCL
SDA
C9009 6.3V 10u
C9008 16V 0.1u
IC9004
C0EBE0000120
RESET
RST
VDD
GND
Cd
NC
C9025 16V 0.1u
C9018 16V 0.1u
C9024 50V 270p
FOR FACTORY USE
D4
STB3.3V
IIC_CONT
GND
SCL1
SDA1
SCL2
SDA2
SCL3
SDA3
TXD
RXD
IIC/INT
GND
STB5V
FL9000
J0HABH000013
FL9001
J0HABH000013
R9082 100
R9083 100
R9084 100
R9085 100
R9086 100
R9087 100
R9088 100
D9011
MA2J72800L
STB_SCL1
STB_SDA1
STB_SCL2
STB_SDA2
TXD_PC
RXD_PC
AR_IIC_INT
FOR FACTORY USE
D6
DCLK
GND
CONF_DONE
3.3V
nCONFIG
nCE
DATA0
nCS
ASDIO
GND
PSTB
GND
PBUSY
3.3V
PDB0
DCDC_ON
PSLCT
XRST
PDB1
GND
R9122 10k
R9123 10k
R9124 10k
R9126 1k
R9117
EXB38V R000V
R9118
EXB38V R000V
R9119 0
R9111 0
R9112 0
R9114 0
R9116 0
R9115 0
DCLK
CONF_DONE
NCONFIG
DATA0
NCE
NCS
DATA0
ASDIO
PSTB
PBUSY
PDB0
DCDC_ON
PSLCT
XRST
PDB1
IC9007
C1ZBZ0002498
Ex.I/O
NCS
DATA
VCC
GND
VCC
VCC
DCLK
ASDI
C9010 16V 0.1u
C9031 16V 0.1u
R9125 1k
ASDIO
DCLK
XRST
A
B
C
31
32
33
34
35
36
37
D-BOARD TZTNP010YFS (4/6)
A
B
C
D
E
F
1
2
3
4
5
6
7
8
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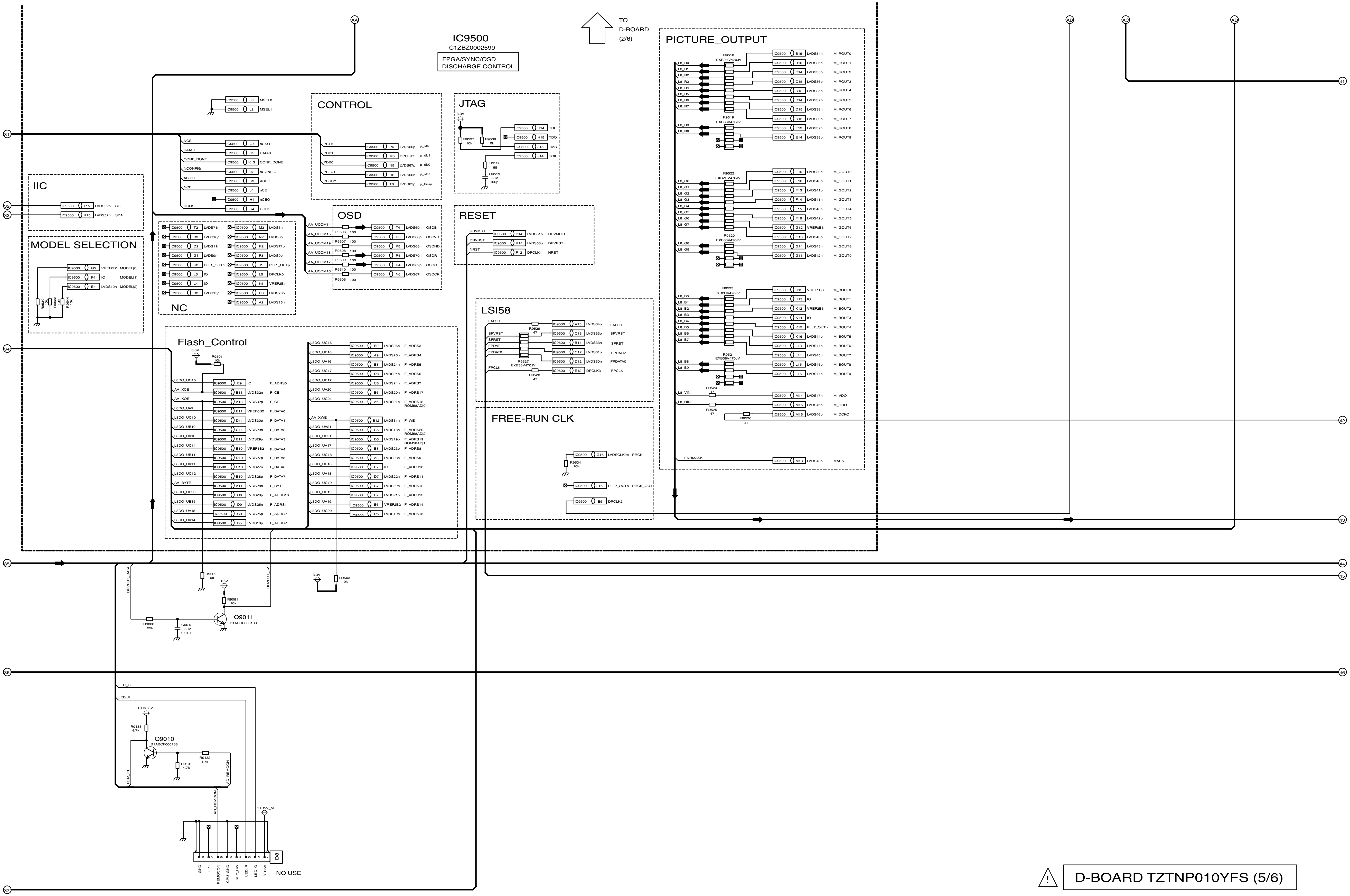
TH-42PM50U
D-Board (4 of 6) Schematic Diagram

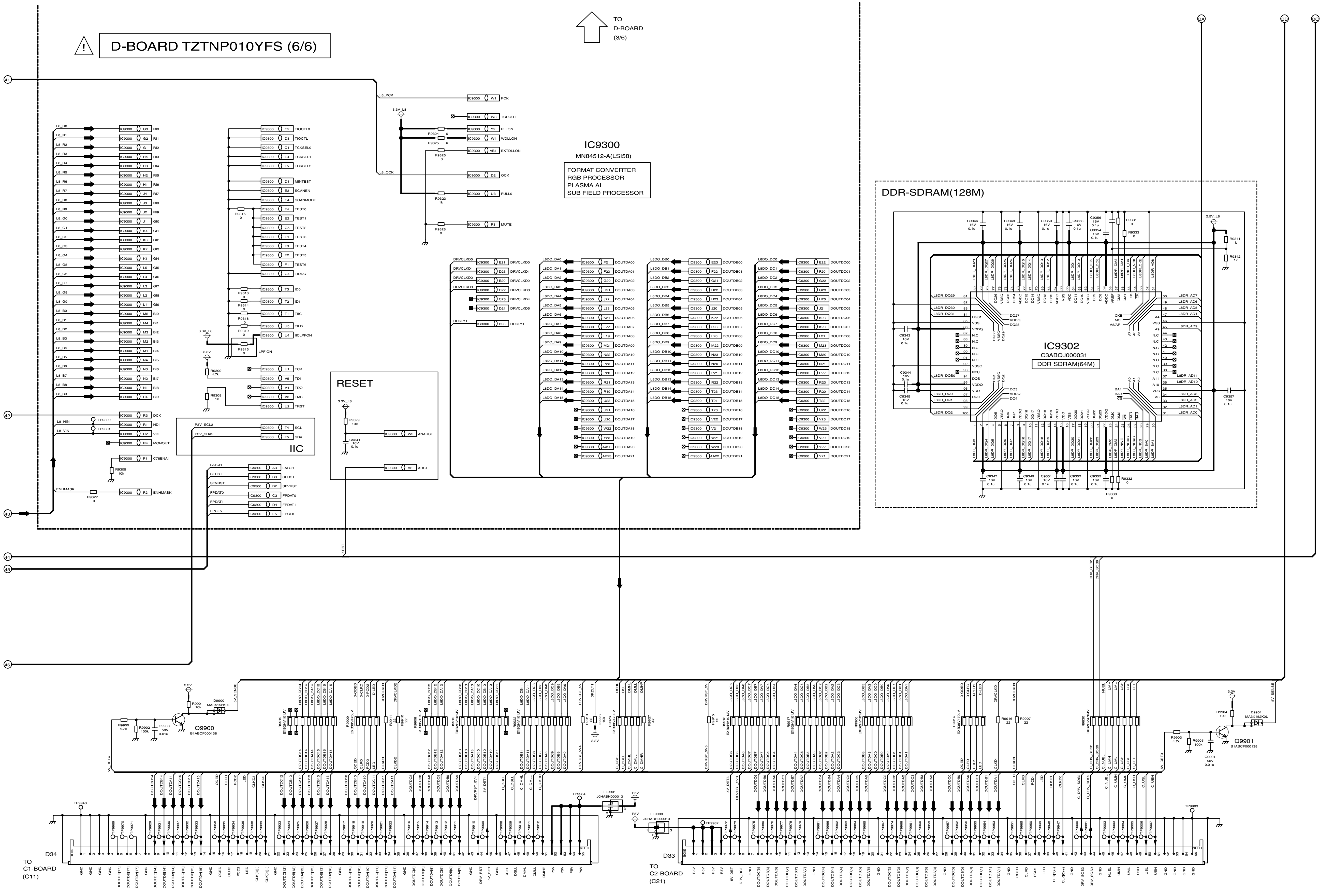
TH-42PM50U
D-Board (4 of 6) Schematic Diagram


IC9500
C1ZBZ0002599
FPGA/SYNC/OSD
DISCHARGE CONTROL
TO
D-BOARD
(2/6)
CONTROL
JTAG
PICTURE_OUTPUT
IIC
MODEL SELECTION
NC
OSD
RESET
LSI58
Flash_Control
FREE-RUN CLK
Q9011
B1ABCF000138
Q9010
B1ABCF000138
D8
NO USE
GND
OPT
REMOCON
CPU_GND
KEY_SW
LED_R
LED_G
STB5V
STB3.3V
STB5V_M
LED_G
LED_R
REM_IN
AD_REMCON
DRVRST_DATA
DRVRST_5V
P5V
3.3V
ENHMASK
MASK
AA
AB
AC
AD
31
32
33
34
35
36
37
41
42
43
44
45
46

D-BOARD TZTNP010YFS (5/6)

TH-42PM50U
D-Board (5 of 6) Schematic Diagram

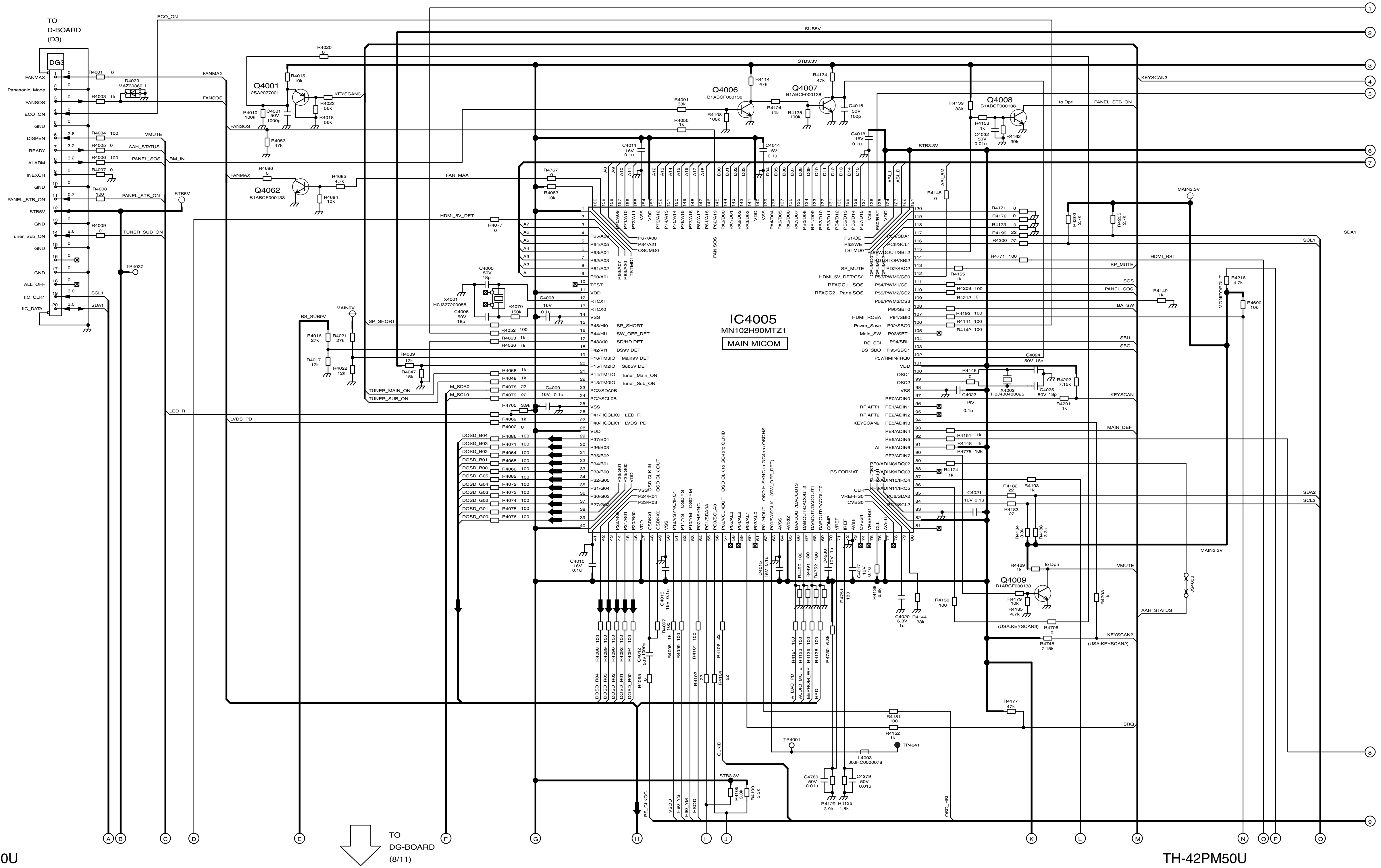
TH-42PM50U
D-Board (5 of 6) Schematic Diagram


D-BOARD TZTNP010YFS (6/6)
TO D-BOARD (3/6)
IC9300
MN84512-A(LSI58)
FORMAT CONVERTER
RGB PROCESSOR
PLASMA AI
SUB FIELD PROCESSOR
DDR-SDRAM(128M)
IC9302
C3ABQJ000031
DDR SDRAM(64M)
RESET
IIC
Q9900
B1ABCF000138
D9900
MA3X152K0L
Q9901
B1ABCF000138
D9901
MA3X152K0L
FL9901
J0HABH000013
FL9900
J0HABH000013
D34
TO C1-BOARD (C11)
D33
TO C2-BOARD (C21)
19
20
21
22
23
24
25
26
27

TH-42PM50U
D-Board (6 of 6) Schematic Diagram

TH-42PM50U
D-Board (6 of 6) Schematic Diagram

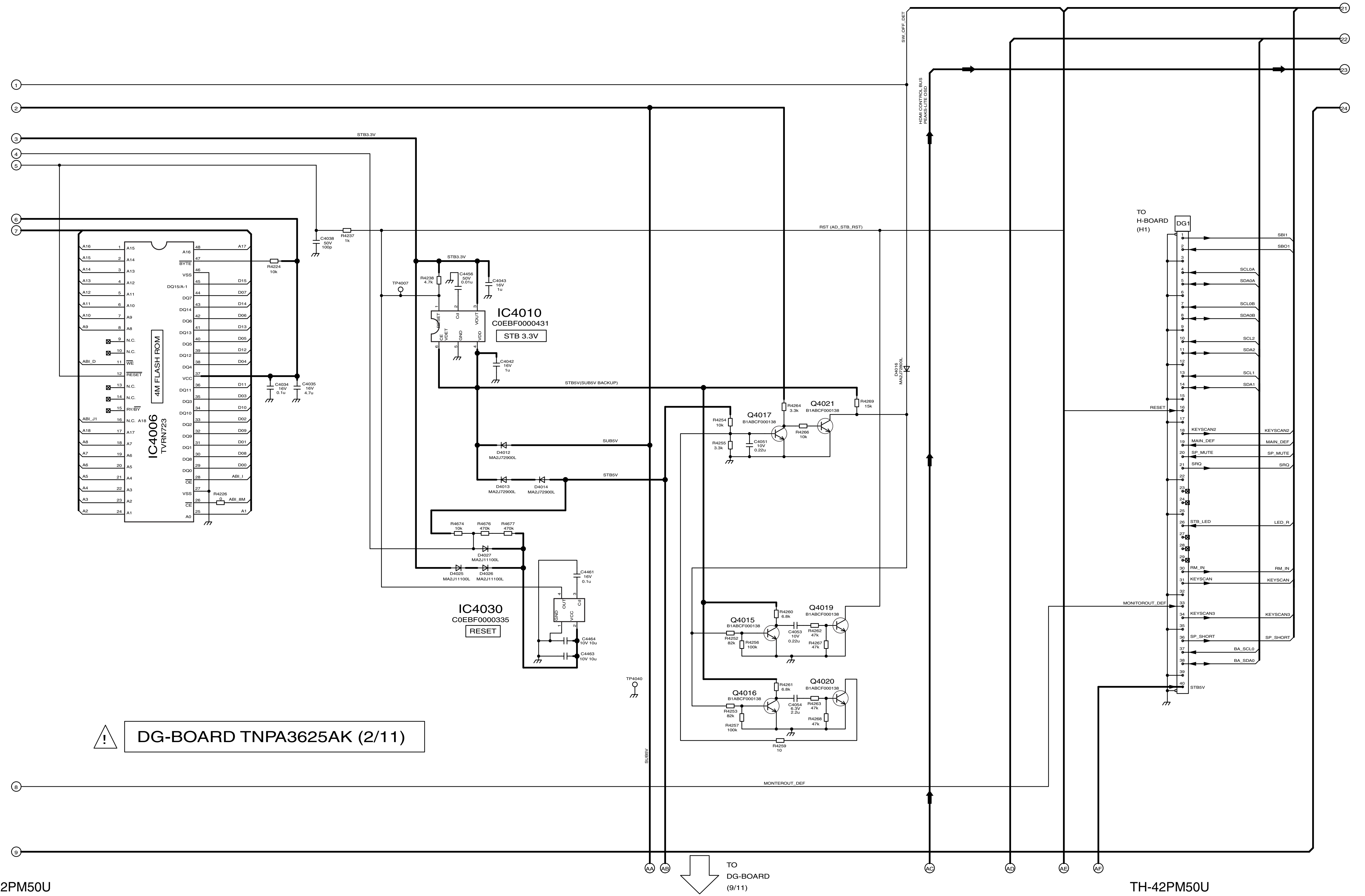
⚠ DG-BOARD TNPA3625AK (1/11)

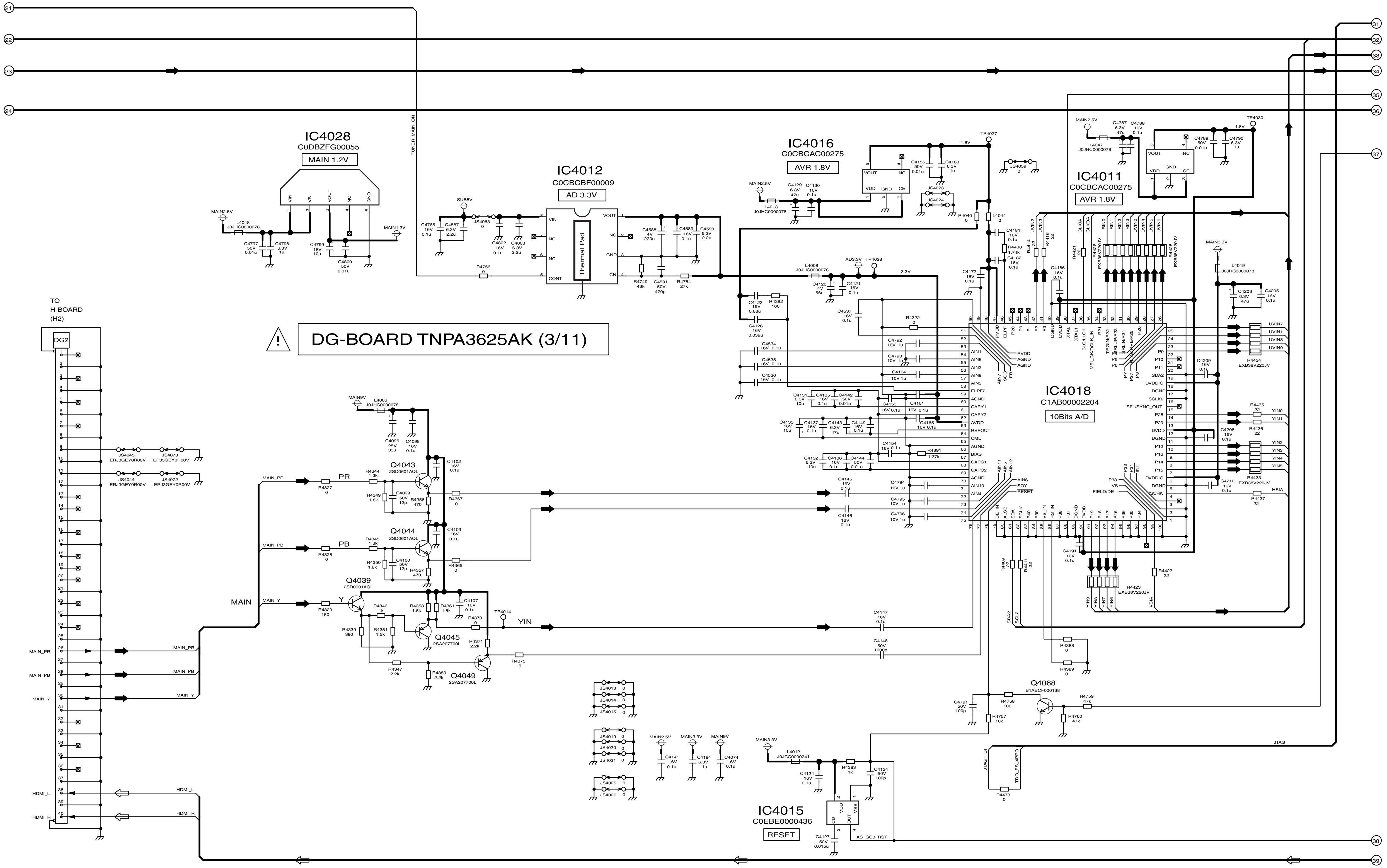


TO
D-BOARD
(D3)
DG3
FANMAX
Panasonic_Mode
FANSOS
ECO_ON
GND
DISPEN
READY
ALARM
INEXCH
GND
PANEL_STB_ON
STB5V
GND
Tuner_Sub_ON
GND
GND
ALL_OFF
IIC_CLK1
IIC_DATA1
ECO_ON
SUB5V
STB3.3V
KEYSCAN3
Q4001
2SA207700L
Q4006
B1ABCF000138
Q4007
B1ABCF000138
Q4008
B1ABCF000138
Q4062
B1ABCF000138
Q4009
B1ABCF000138
D4029
MAZ30360LL
VMUTE
AAH_STATUS
PANEL_SOS
RM_IN
PANEL_STB_ON
TUNER_SUB_ON
FAN_MAX
HDMI_5V_DET
SP_SHORT
BS_SUB9V
MAIN9V
TUNER_MAIN_ON
TUNER_SUB_ON
M_SDA0
M_SCL0
LED_R
LVDS_PD
X4001
H0J327200058
X4002
H0J400400025
IC4005
MN102H90MTZ1
MAIN MICOM
MAIN3.3V
SCL1
SDA1
HDMI_RST
SP_MUTE
SOS
PANEL_SOS
BA_SW
SBI1
SBO1
KEYSCAN
MAIN_DEF
SDA2
SCL2
VMUTE
AAH_STATUS
KEYSCAN2
(USA:KEYSCAN3)
(USA:KEYSCAN2)
SRQ
TP4001
TP4037
TP4041
L4003
J0JHC0000078
JS4003
MONITOROUT
to Dpri
CLKID
OSD_HSI
BS_CLKOC
VSOD
H90_YS
H90_YM
HSOD
DOSD_B04
DOSD_B03
DOSD_B02
DOSD_B01
DOSD_B00
DOSD_G05
DOSD_G04
DOSD_G03
DOSD_G02
DOSD_G01
DOSD_G00
DOSD_R04
DOSD_R03
DOSD_R02
DOSD_R01
DOSD_R00
A_DAC_PD
AUDIO_MUTE
EEPROM_WP
HPD
1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
TO
DG-BOARD
(8/11)

TH-42PM50U
DG-Board (1 of 11) Schematic Diagram

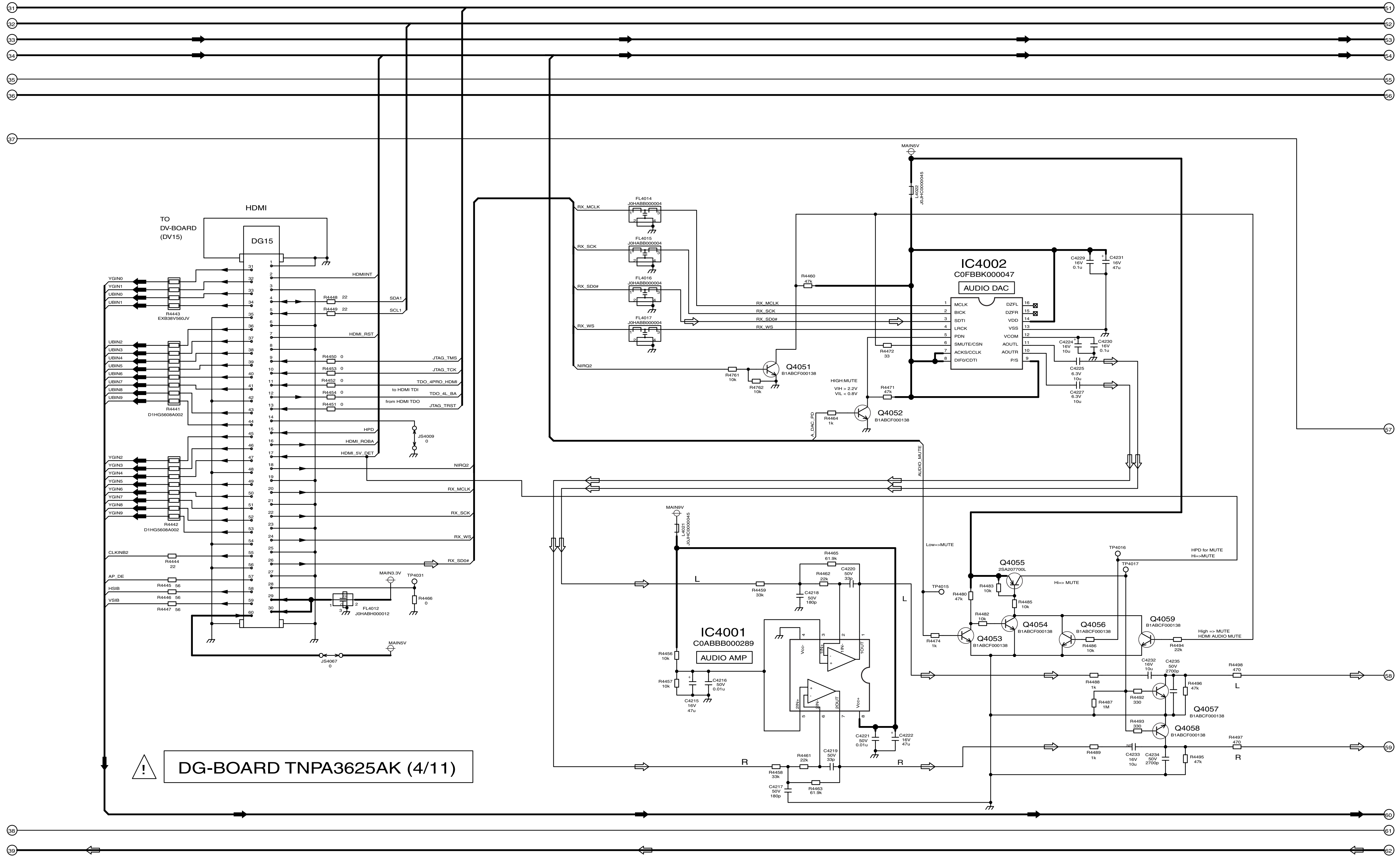
TH-42PM50U
DG-Board (1 of 11) Schematic Diagram


DG-BOARD TNPA3625AK (2/11)
IC4006
TVRN723
4M FLASH ROM
IC4010
C0EBF0000431
STB 3.3V
IC4030
C0EBF0000335
RESET
Q4017
Q4021
Q4015
Q4019
Q4016
Q4020
B1ABCF000138
D4012
D4013
D4014
D4016
D4025
D4026
D4027
MA2J72900L
MA2J11100L
TP4007
TP4040
STB3.3V
STB5V(SUB5V BACKUP)
SUB5V
STB5V
RST (AD_STB_RST)
SW_OFF_DET
HDMI CONTROL BUS
PEAKS-LITE OSD
MONTEROUT_DEF
MONITOROUT_DEF
TO
H-BOARD
(H1)
DG1
SBI1
SBO1
SCL0A
SDA0A
SCL0B
SDA0B
SCL2
SDA2
SCL1
SDA1
RESET
KEYSCAN2
MAIN_DEF
SP_MUTE
SRQ
STB_LED
LED_R
RM_IN
KEYSCAN
KEYSCAN3
SP_SHORT
BA_SCL0
BA_SDA0
STB5V
TO
DG-BOARD
(9/11)
AA
AB
AC
AD
AE
AF

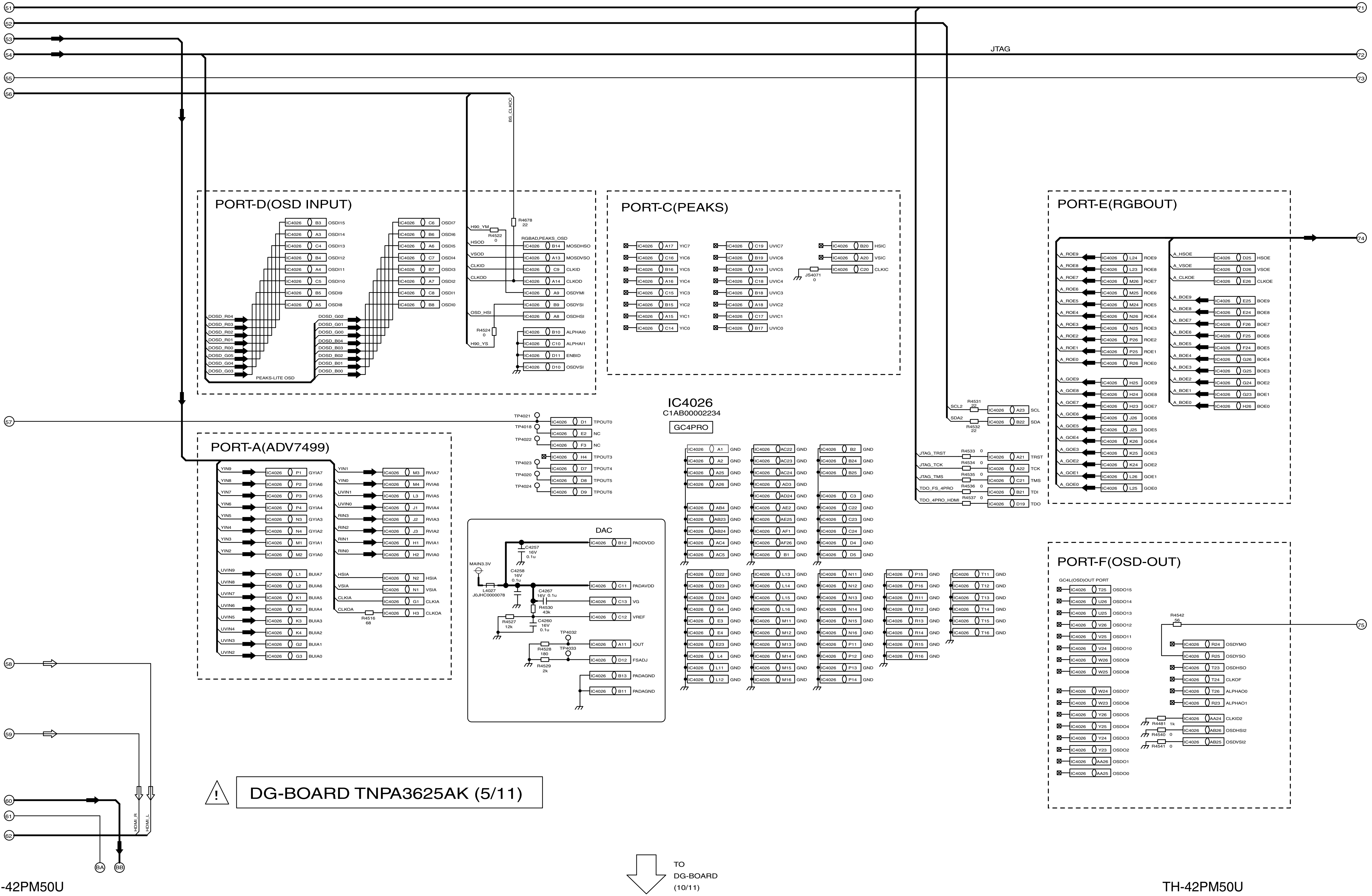

DG-BOARD TNPA3625AK (3/11)
IC4028
C0DBZFG00055
MAIN 1.2V
IC4012
C0CBCBF00009
AD 3.3V
Thermal Pad
IC4016
C0CBCAC00275
AVR 1.8V
IC4011
C0CBCAC00275
AVR 1.8V
IC4018
C1AB00002204
10Bits A/D
IC4015
C0EBE0000436
RESET
Q4043
2SD0601AQL
Q4044
2SD0601AQL
Q4039
2SD0601AQL
Q4045
2SA2070OL
Q4049
2SA2070OL
Q4068
B1ABCF000138
TO
H-BOARD
(H2)
DG2
MAIN_PR
MAIN_PB
MAIN_Y
HDMI_L
HDMI_R
MAIN
PR
PB
Y
YIN
TUNER_MAIN_ON
MAIN2.5V
MAIN1.2V
MAIN3.3V
MAIN9V
SUB5V
AD3.3V
JTAG
AS_GC3_RST
UVIN7
UVIN1
UVIN8
UVIN9
YIN0
YIN1
YIN2
YIN3
YIN4
YIN5
HSIA
VSIA
TP4014
TP4027
TP4028
TP4030
1.8V
3.3V
21
22
23
24
31
32
33
34
35
36
37
38
39

TH-42PM50U
DG-Board (3 of 11) Schematic Diagram

TH-42PM50U
DG-Board (3 of 11) Schematic Diagram

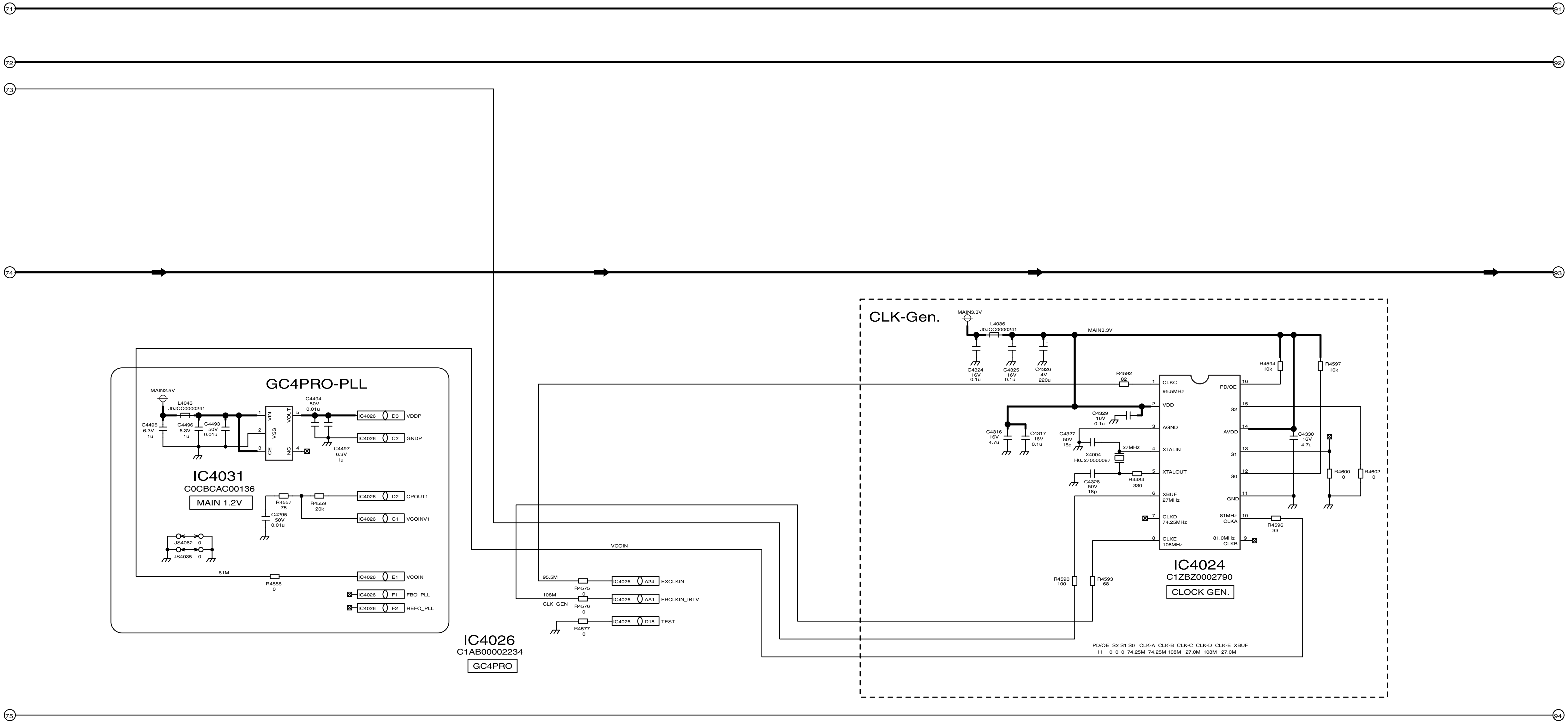


HDMI
TO
DV-BOARD
(DV15)
DG15
YGIN0
YGIN1
UBIN0
UBIN1
R4443
EXB38V560JV
UBIN2
UBIN3
UBIN4
UBIN5
UBIN6
UBIN7
UBIN8
UBIN9
R4441
D1HG5608A002
YGIN2
YGIN3
YGIN4
YGIN5
YGIN6
YGIN7
YGIN8
YGIN9
R4442
D1HG5608A002
CLKINB2
R4444
22
AP_DE
HSIB
VSIB
R4445 56
R4446 56
R4447 56
HDMIINT
R4448 22
R4449 22
SDA1
SCL1
HDMI_RST
R4450 0
R4453 0
R4452 0
R4454 0
R4451 0
JTAG_TMS
JTAG_TCK
TDO_4PRO_HDMI
to HDMI TDI
TDO_4L_BA
from HDMI TDO
JTAG_TRST
HPD
JS4009
0
HDMI_ROBA
HDMI_5V_DET
NIRQ2
RX_MCLK
RX_SCK
RX_WS
RX_SD0#
MAIN3.3V
TP4031
R4466
0
FL4012
J0HABH000012
MAIN5V
JS4067
0
FL4014
J0HABB000004
FL4015
J0HABB000004
FL4016
J0HABB000004
FL4017
J0HABB000004
R4761
10k
R4762
10k
Q4051
B1ABCF000138
R4460
47k
MAIN5V
L4022
J0JHC0000045
IC4002
C0FBBK000047
AUDIO DAC
MCLK
BICK
SDTI
LRCK
PDN
SMUTE/CSN
ACKS/CCLK
DIF0/CDTI
DZFL
DZFR
VDD
VSS
VCOM
AOUTL
AOUTR
P/S
C4229 16V 0.1u
C4231 16V 47u
C4224 16V 10u
C4230 16V 0.1u
C4225 6.3V 10u
C4227 6.3V 10u
R4472
33
HIGH:MUTE
VIH > 2.2V
VIL < 0.8V
R4471
47k
R4464
1k
Q4052
B1ABCF000138
A_DAC_PD
AUDIO_MUTE
MAIN9V
L4021
J0JHC0000045
R4465
61.9k
R4462
22k
C4220 50V 33p
C4218 50V 180p
R4459
33k
L
IC4001
C0ABBB000289
AUDIO AMP
R4456
10k
R4457
10k
C4216 50V 0.01u
C4215 16V 47u
C4221 50V 0.01u
C4222 16V 47u
R4461
22k
C4219 50V 33p
R4458
33k
C4217 50V 180p
R4463
61.9k
R
Low=>MUTE
TP4015
TP4016
TP4017
HPD for MUTE
Hi=>MUTE
Q4055
2SA2077O0L
Hi=> MUTE
R4483 10k
R4480 47k
R4485 10k
R4482 10k
R4474 1k
Q4053
B1ABCF000138
Q4054
B1ABCF000138
Q4056
B1ABCF000138
R4486 10k
Q4059
B1ABCF000138
R4494 22k
High => MUTE
HDMI AUDIO MUTE
C4232 16V 10u
C4235 50V 2700p
R4488 1k
R4487 1M
R4492 330
R4496 47k
R4498 470
Q4057
B1ABCF000138
R4493 330
Q4058
B1ABCF000138
R4489 1k
C4233 16V 10u
C4234 50V 2700p
R4495 47k
R4497 470
DG-BOARD TNPA3625AK (4/11)

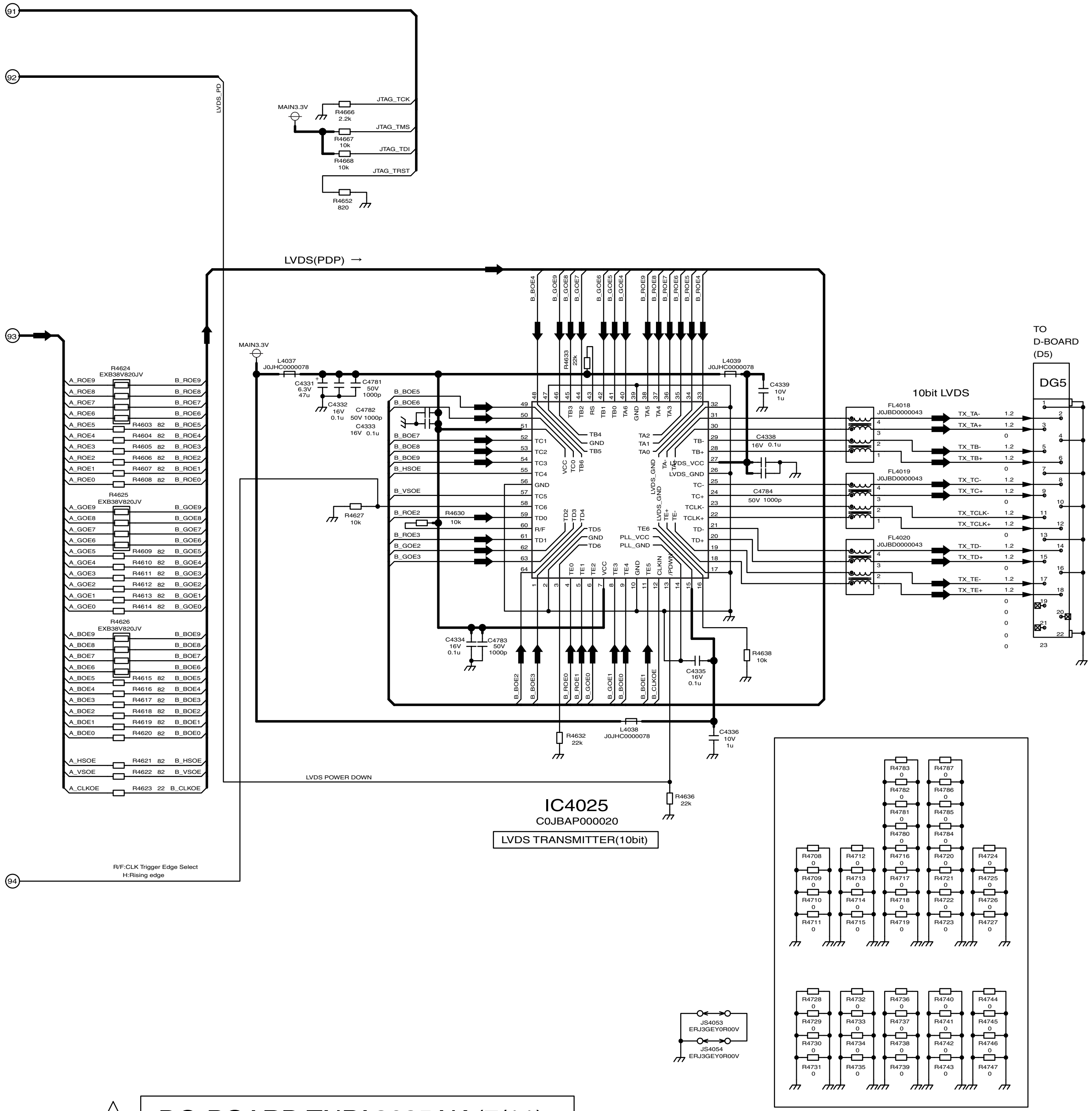

JTAG
PORT-D(OSD INPUT)
PEAKS-LITE OSD
RGBAD,PEAKS_OSD
BS_CLKDC
PORT-C(PEAKS)
PORT-E(RGBOUT)
IC4026
C1AB00002234
GC4PRO
PORT-A(ADV7499)
DAC
MAIN3.3V
PORT-F(OSD-OUT)
GC4L(OSD)OUT PORT
HDMI_R
HDMI_L
DG-BOARD TNPA3625AK (5/11)
TO DG-BOARD (10/11)

TH-42PM50U
DG-Board (5 of 11) Schematic Diagram

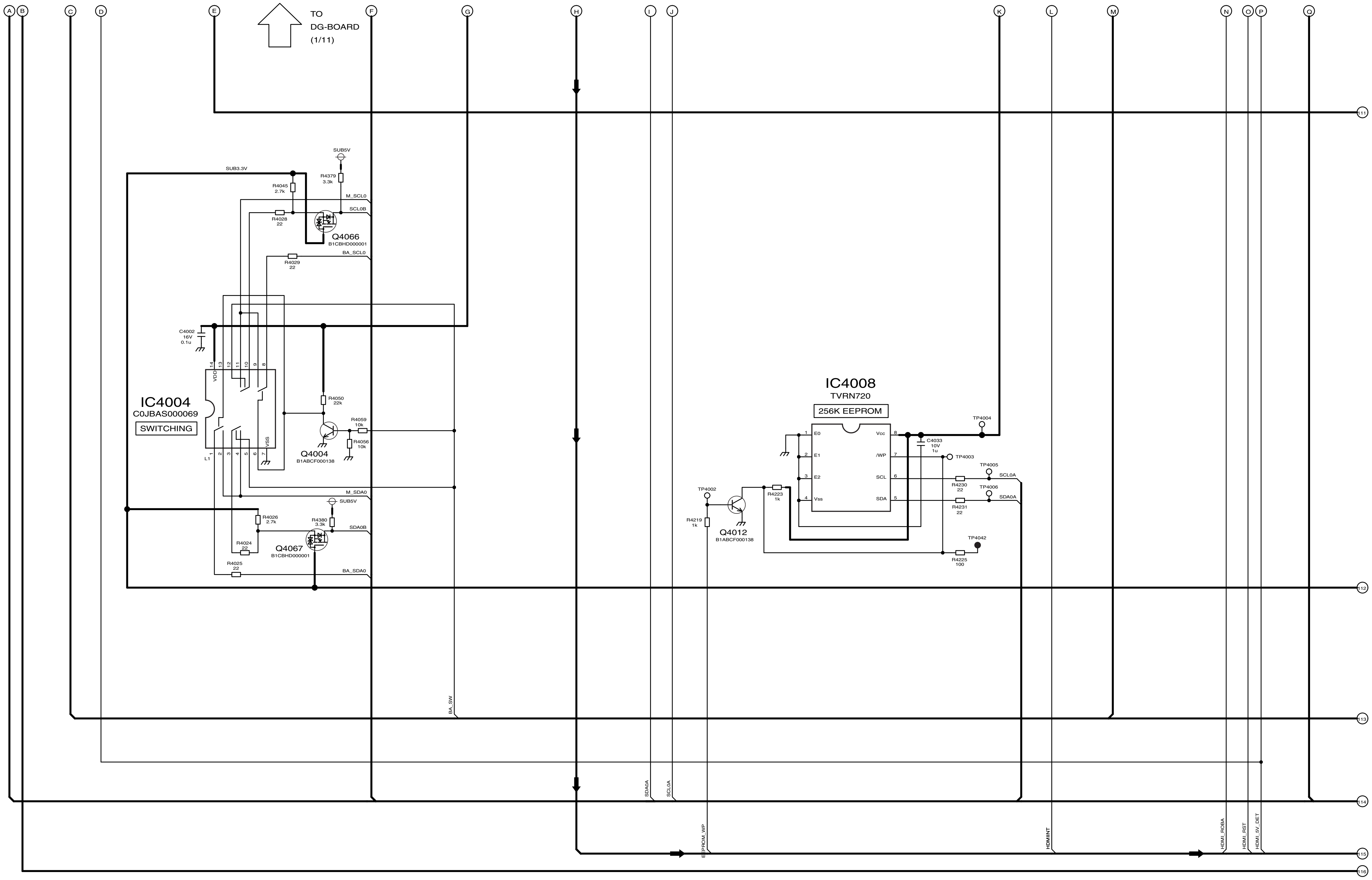
TH-42PM50U
DG-Board (5 of 11) Schematic Diagram


71
72
73
74
75
91
92
93
94
GC4PRO-PLL
MAIN2.5V
L4043
J0JCC0000241
C4495
6.3V
1u
C4496
6.3V
1u
C4493
50V
0.01u
1
2
3
VIN
VSS
CE
VOUT
NC
5
4
C4494
50V
0.01u
C4497
6.3V
1u
IC4026 D3 VDDP
IC4026 C2 GNDP
IC4031
C0CBCAC00136
MAIN 1.2V
R4557
75
R4559
20k
C4295
50V
0.01u
IC4026 D2 CPOUT1
IC4026 C1 VCOINV1
JS4062 0
JS4035 0
81M
R4558
0
IC4026 E1 VCOIN
IC4026 F1 FBO_PLL
IC4026 F2 REFO_PLL
VCOIN
95.5M
R4575
0
IC4026 A24 EXCLKIN
108M
CLK_GEN
R4576
0
IC4026 AA1 FRCLKIN_IBTV
R4577
0
IC4026 D18 TEST
IC4026
C1AB00002234
GC4PRO
CLK-Gen.
MAIN3.3V
L4036
J0JCC0000241
MAIN3.3V
C4324
16V
0.1u
C4325
16V
0.1u
C4326
4V
220u
R4592
82
R4594
10k
R4597
10k
1 CLKC 95.5MHz
2 VDD
3 AGND
4 XTALIN
5 XTALOUT
6 XBUF 27MHz
7 CLKD 74.25MHz
8 CLKE 108MHz
16 PD/OE
15 S2
14 AVDD
13 S1
12 S0
11 GND
10 81MHz CLKA
9 81.0MHz CLKB
C4329
16V
0.1u
C4316
16V
4.7u
C4317
16V
0.1u
C4327
50V
18p
27MHz
X4004
H0J270500087
C4328
50V
18p
R4484
330
C4330
16V
4.7u
R4600
0
R4602
0
R4596
33
R4590
100
R4593
68
IC4024
C1ZBZ0002790
CLOCK GEN.
PD/OE S2 S1 S0 CLK-A CLK-B CLK-C CLK-D CLK-E XBUF
H 0 0 0 74.25M 74.25M 108M 27.0M 108M 27.0M

⚠ DG-BOARD TNPA3625AK (6/11)


91
92
93
94
LVDS_PD
MAIN3.3V
R4666 2.2k
R4667 10k
R4668 10k
R4652 820
JTAG_TCK
JTAG_TMS
JTAG_TDI
JTAG_TRST
LVDS(PDP) →
R4624 EXB38V820JV
R4625 EXB38V820JV
R4626 EXB38V820JV
A_ROE9 … A_ROE0
B_ROE9 … B_ROE0
A_GOE9 … A_GOE0
B_GOE9 … B_GOE0
A_BOE9 … A_BOE0
B_BOE9 … B_BOE0
A_HSOE
A_VSOE
A_CLKOE
B_HSOE
B_VSOE
B_CLKOE
R4621 82
R4622 82
R4623 22
L4037 J0JHC0000078
L4039 J0JHC0000078
L4038 J0JHC0000078
C4331 6.3V 47u
C4332 16V 0.1u
C4781 50V 1000p
C4782 50V 1000p
C4333 16V 0.1u
C4339 10V 1u
C4338 16V 0.1u
C4784 50V 1000p
C4334 16V 0.1u
C4783 50V 1000p
C4335 16V 0.1u
C4336 10V 1u
R4633 22k
R4627 10k
R4630 10k
R4632 22k
R4638 10k
R4636 22k
LVDS POWER DOWN
R/F:CLK Trigger Edge Select
H:Rising edge
IC4025
C0JBAP000020
LVDS TRANSMITTER(10bit)
10bit LVDS
FL4018 J0JBD0000043
FL4019 J0JBD0000043
FL4020 J0JBD0000043
TX_TA-
TX_TA+
TX_TB-
TX_TB+
TX_TC-
TX_TC+
TX_TCLK-
TX_TCLK+
TX_TD-
TX_TD+
TX_TE-
TX_TE+
TO
D-BOARD
(D5)
DG5
JS4053 ERJ3GEY0R00V
JS4054 ERJ3GEY0R00V
R4708–R4747 0
R4780–R4787 0

DG-BOARD TNPA3625AK (7/11)


A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
TO
DG-BOARD
(1/11)
SUB5V
SUB3.3V
R4379
3.3k
R4045
2.7k
M_SCL0
R4028
22
SCL0B
Q4066
B1CBHD000001
R4029
22
BA_SCL0
C4002
16V
0.1u
14
13
12
11
10
9
8
VDD
IC4004
C0JBAS000069
SWITCHING
VSS
1
2
3
4
5
6
7
L1
R4050
22k
R4059
10k
R4056
10k
Q4004
B1ABCF000138
M_SDA0
SUB5V
R4026
2.7k
R4380
3.3k
SDA0B
R4024
22
Q4067
B1CBHD000001
R4025
22
BA_SDA0
BA_SW
IC4008
TVRN720
256K EEPROM
E0
E1
E2
Vss
Vcc
/WP
SCL
SDA
TP4004
C4033
10V
1u
TP4003
TP4005
SCL0A
R4230
22
TP4006
SDA0A
R4231
22
TP4002
R4223
1k
R4219
1k
Q4012
B1ABCF000138
TP4042
R4225
100
SDA0A
SCL0A
EEPROM_WP
HDMIINT
HDMI_ROBA
HDMI_RST
HDMI_5V_DET
111
112
113
114
115
116

A

B

C

D

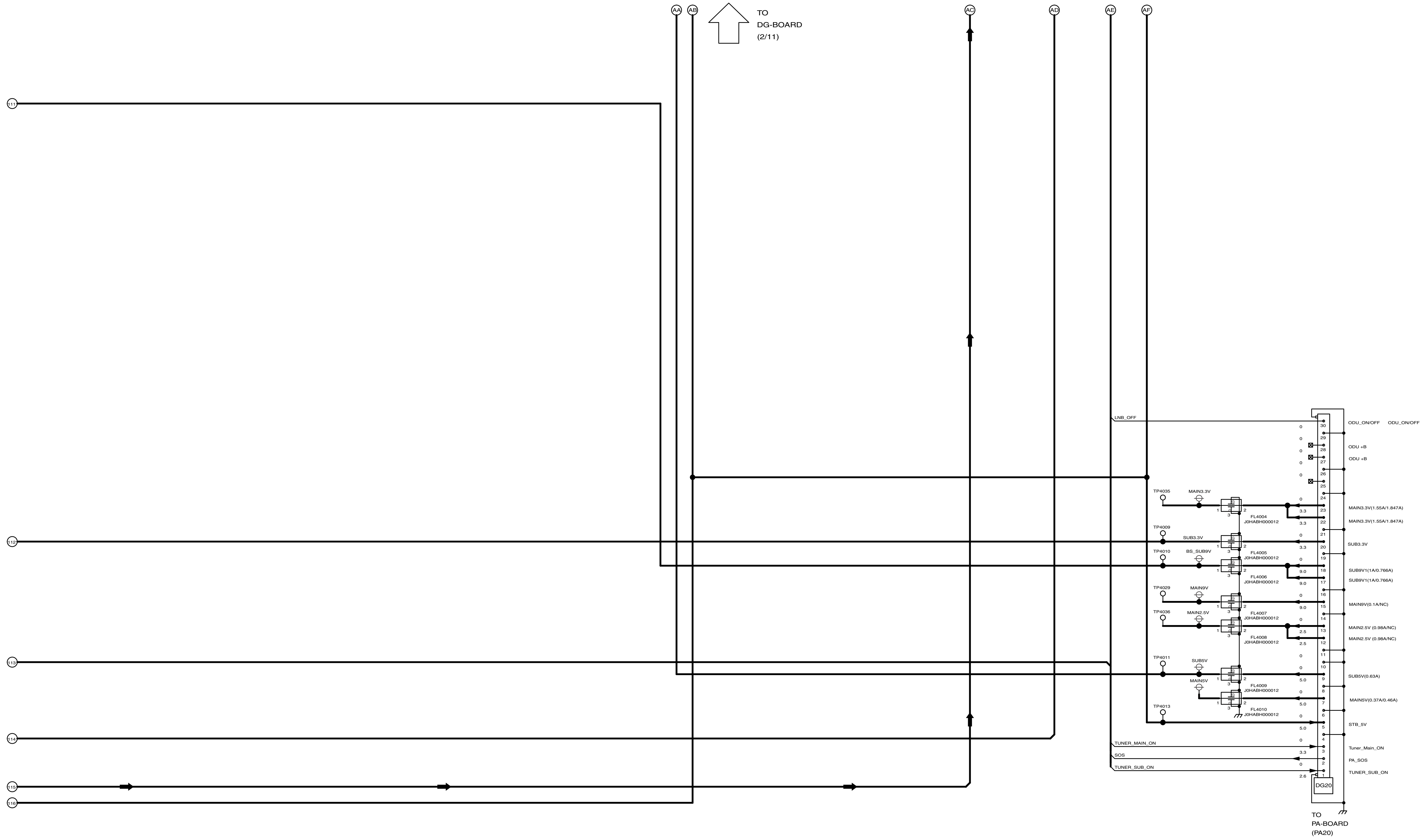
E

⚠ **DG-BOARD TNPA3625AK (8/11)**

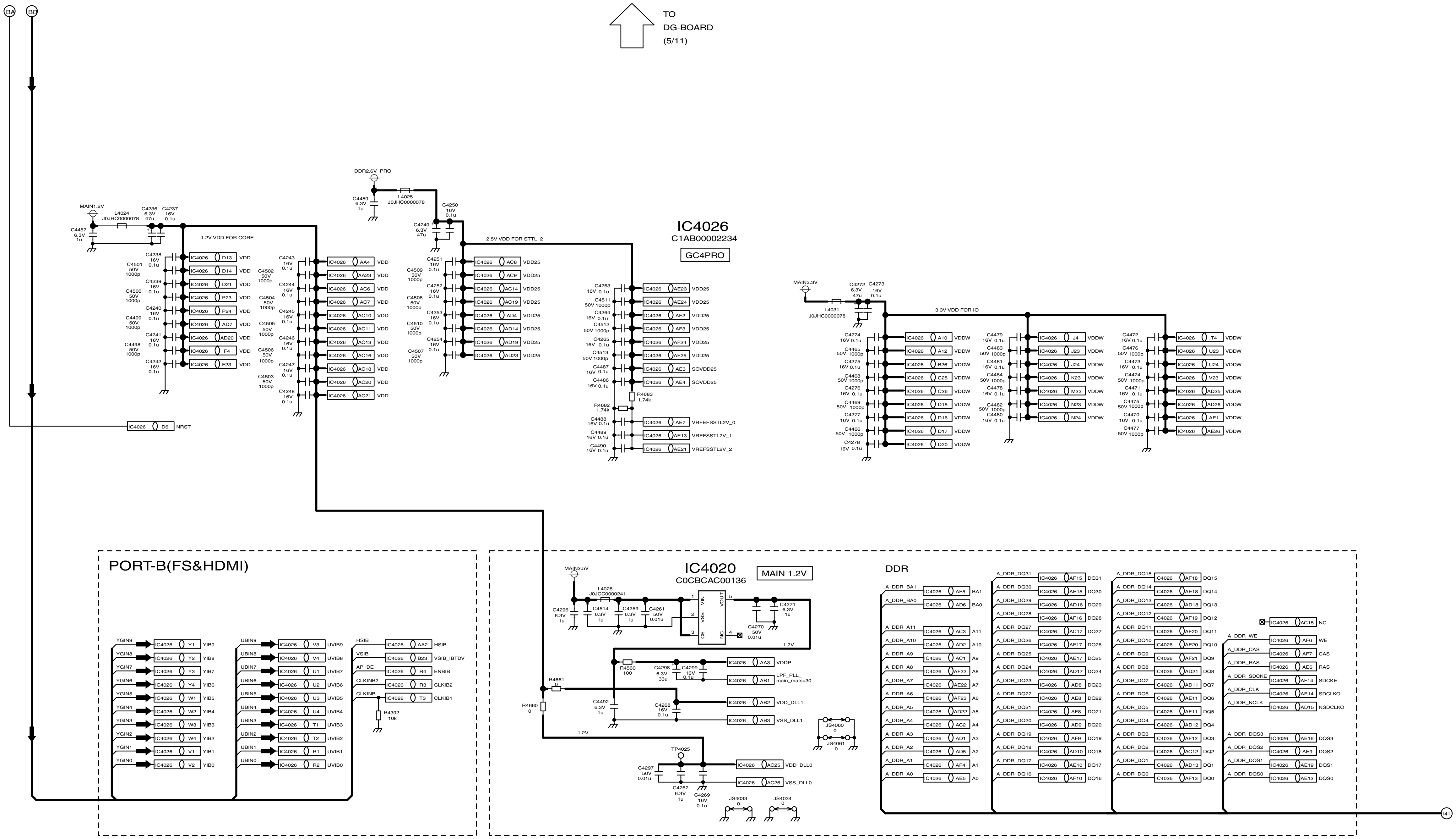
TH-42PM50U
DG-Board (8 of 11) Schematic Diagram

TH-42PM50U
DG-Board (8 of 11) Schematic Diagram

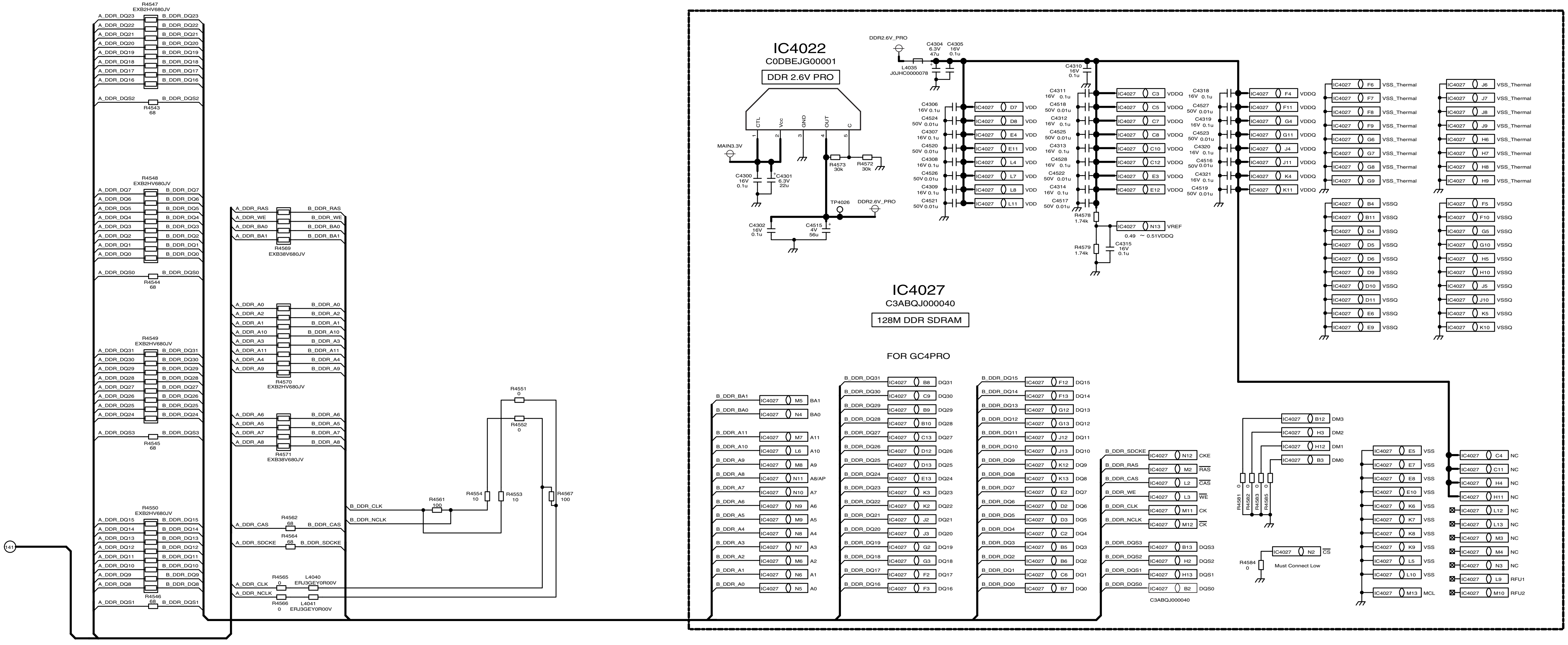
1 2 3 4 5 6 7 8


AA
AB
TO
DG-BOARD
(2/11)
AC
AD
AE
AF
111
112
113
114
115
116
LNB_OFF
TP4035
MAIN3.3V
FL4004
J0HABH000012
TP4009
SUB3.3V
TP4010
BS_SUB9V
FL4005
J0HABH000012
FL4006
J0HABH000012
TP4029
MAIN9V
TP4036
MAIN2.5V
FL4007
J0HABH000012
FL4008
J0HABH000012
TP4011
SUB5V
MAIN5V
FL4009
J0HABH000012
TP4013
FL4010
J0HABH000012
TUNER_MAIN_ON
SOS
TUNER_SUB_ON
ODU_ON/OFF
ODU_ON/OFF
ODU +B
ODU +B
MAIN3.3V(1.55A/1.847A)
MAIN3.3V(1.55A/1.847A)
SUB3.3V
SUB9V1(1A/0.766A)
SUB9V1(1A/0.766A)
MAIN9V(0.1A/NC)
MAIN2.5V (0.98A/NC)
MAIN2.5V (0.98A/NC)
SUB5V(0.63A)
MAIN5V(0.37A/0.46A)
STB_5V
Tuner_Main_ON
PA_SOS
TUNER_SUB_ON
DG20
TO
PA-BOARD
(PA20)

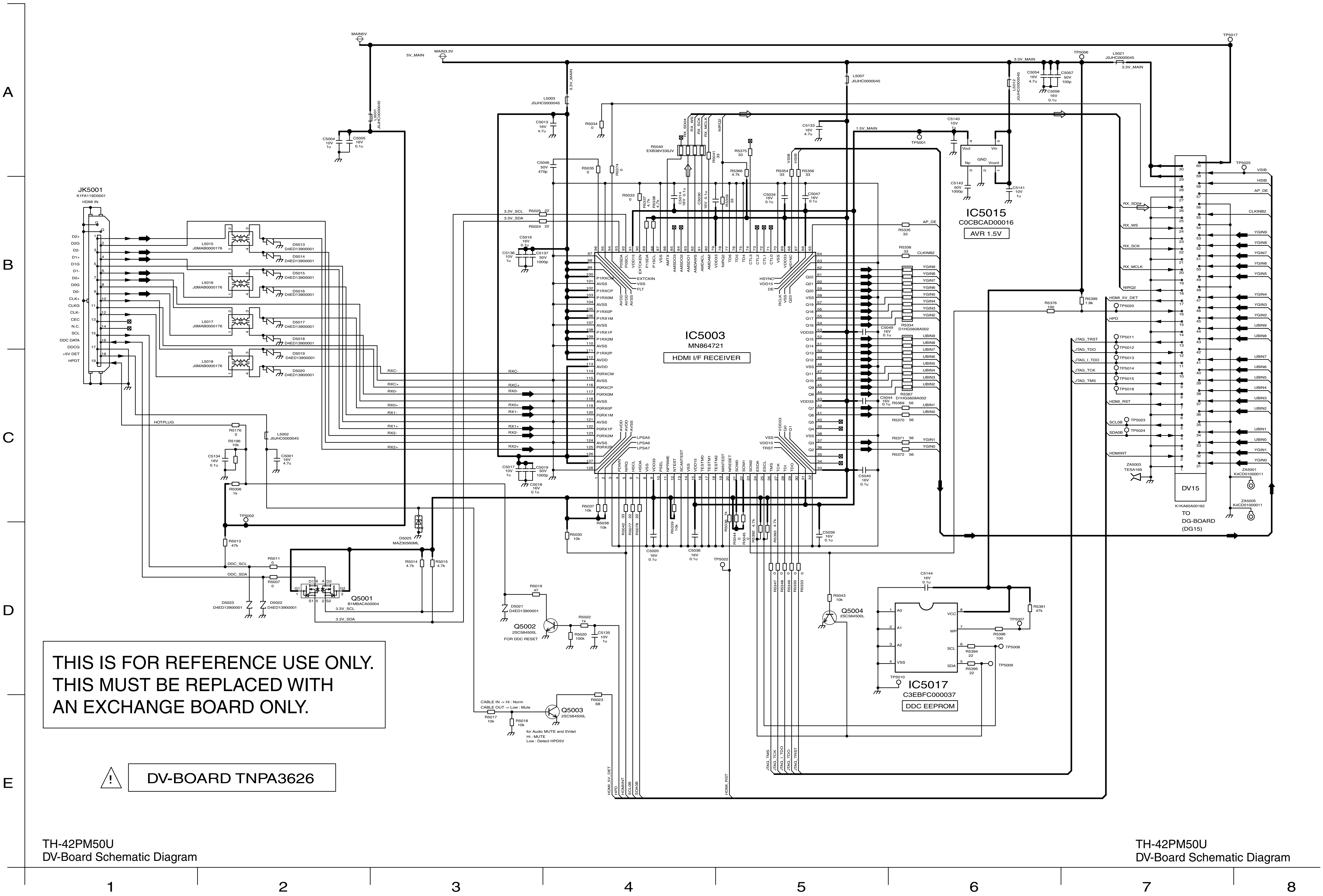
⚠ DG-BOARD TNPA3625AK (9/11)


BA
BB
TO
DG-BOARD
(5/11)
IC4026
C1AB00002234
GC4PRO
MAIN1.2V
L4024
J0JHC0000078
1.2V VDD FOR CORE
DDR2.6V_PRO
L4025
J0JHC0000078
2.5V VDD FOR SSTL_2
MAIN3.3V
L4031
J0JHC0000078
3.3V VDD FOR IO
VDD
VDD25
SOVDD25
VRFEFSSTL2V_0
VREFSSTL2V_1
VREFSSTL2V_2
VDDW
NRST
PORT-B(FS&HDMI)
YGIN9
YGIN8
YGIN7
YGIN6
YGIN5
YGIN4
YGIN3
YGIN2
YGIN1
YGIN0
UBIN9
UBIN8
UBIN7
UBIN6
UBIN5
UBIN4
UBIN3
UBIN2
UBIN1
UBIN0
HSIB
VSIB
AP_DE
CLKINB2
CLKINB
VSIB_IBTDV
ENBIB
CLKIB2
CLKIB1
R4392
10k
IC4020
C0CBCAC00136
MAIN 1.2V
MAIN2.5V
L4028
J0JCC0000241
VIN
VSS
CE
VOUT
NC
1.2V
R4560
100
VDDP
LPF_PLL_
main_matsu30
VDD_DLL1
VSS_DLL1
R4661
0
R4660
0
TP4025
VDD_DLL0
VSS_DLL0
JS4060
JS4061
JS4033
JS4034
DDR
A_DDR_BA1
A_DDR_BA0
A_DDR_A11
A_DDR_A10
A_DDR_A9
A_DDR_A8
A_DDR_A7
A_DDR_A6
A_DDR_A5
A_DDR_A4
A_DDR_A3
A_DDR_A2
A_DDR_A1
A_DDR_A0
A_DDR_DQ31
A_DDR_DQ16
A_DDR_DQ15
A_DDR_DQ0
A_DDR_WE
A_DDR_CAS
A_DDR_RAS
A_DDR_SDCKE
A_DDR_CLK
A_DDR_NCLK
A_DDR_DQS3
A_DDR_DQS2
A_DDR_DQS1
A_DDR_DQS0
NC
WE
CAS
RAS
SDCKE
SDCLKO
NSDCLKO
DQS3
DQS2
DQS1
DQS0
41

DG-BOARD TNPA3625AK (10/11)


R4547
EXB2HV680JV
R4548
EXB2HV680JV
R4549
EXB2HV680JV
R4550
EXB2HV680JV
R4569
EXB38V680JV
R4570
EXB2HV680JV
R4571
EXB38V680JV
DDR2.6V_PRO
MAIN3.3V
IC4022
C0DBEJG00001
DDR 2.6V PRO
CTL
Vcc
GND
OUT
C
TP4026
IC4027
C3ABQJ000040
128M DDR SDRAM
FOR GC4PRO
Must Connect Low
C3ABQJ000040
141

⚠ DG-BOARD TNPA3625AK (11/11)

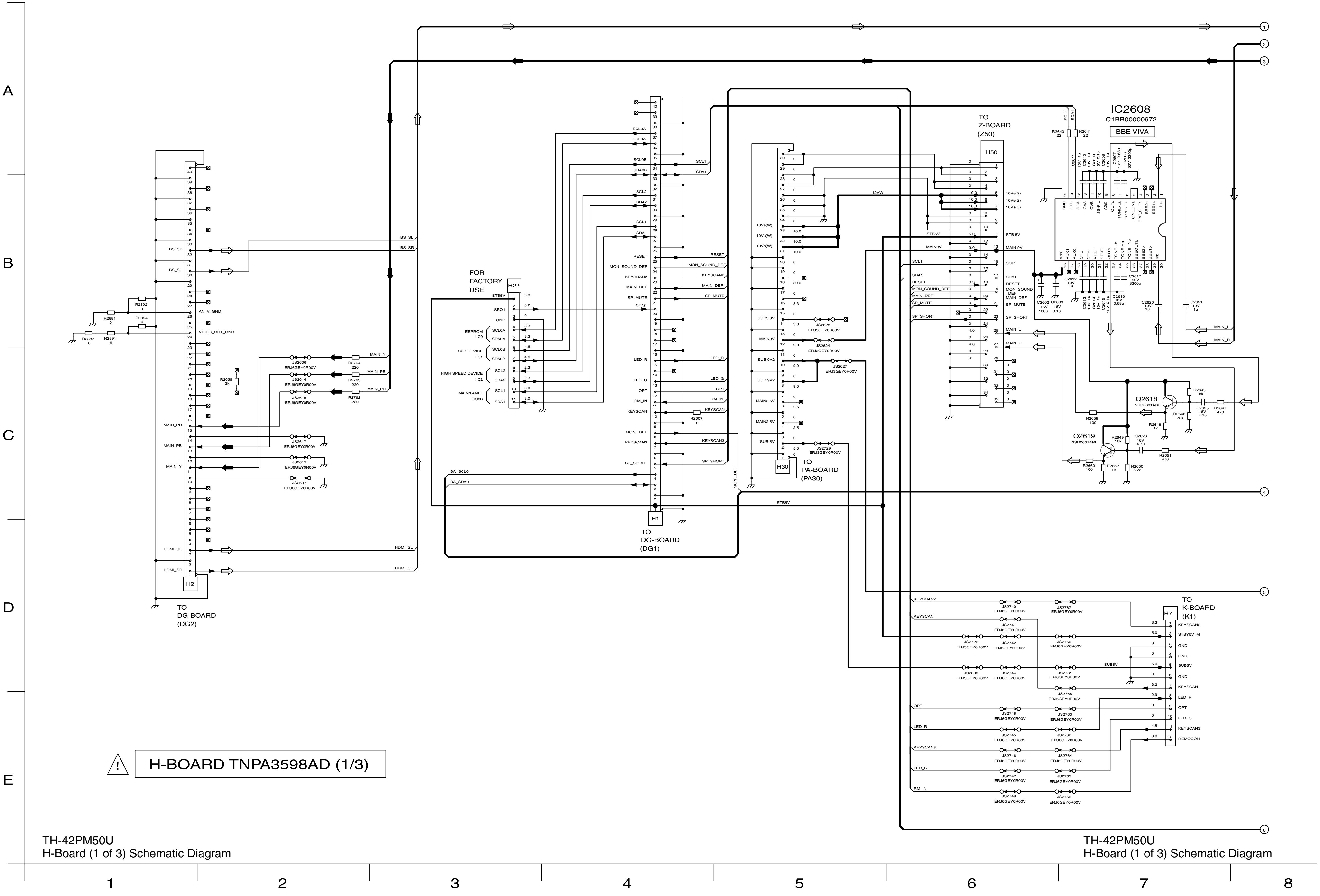

JK5001
K1FA119D0001
HDMI IN
D2+
D2G
D2-
D1+
D1G
D1-
D0+
D0G
D0-
CLK+
CLKG
CLK-
CEC
N.C.
SCL
DDC DATA
DDCG
+5V DET
HPDT
L5015
L5016
L5017
L5018
J0MAB0000176
D5013
D5014
D5015
D5016
D5017
D5018
D5019
D5020
D4ED13900001
MAIN5V
5V_MAIN
MAIN3.3V
3.3V_MAIN
1.5V_MAIN
IC5003
MN864721
HDMI I/F RECEIVER
IC5015
C0CBCAD00016
AVR 1.5V
IC5017
C3EBFC000037
DDC EEPROM
Q5001
B1MBACA00004
Q5002
2SC584500L
FOR DDC RESET
Q5003
2SC584500L
Q5004
2SC584500L
D5025
MAZ30560ML
HOTPLUG
DDC_SCL
DDC_SDA
3.3V_SCL
3.3V_SDA
CABLE IN -> Hi : Norm
CABLE OUT -> Low : Mute
for Audio MUTE and 5Vdet
Hi : MUTE
Low : Detect HPD5V
RX_SDO#
RX_WS
RX_SCK
RX_MCLK
NIRQ2
HDMI_5V_DET
HPD
JTAG_TRST
JTAG_TDO
JTAG_I_TDO
JTAG_TCK
JTAG_TMS
HDMI_RST
SCL0B
SDA0B
HDMIINT
VSIB
HSIB
AP_DE
CLKINB2
YGIN9
YGIN8
YGIN7
YGIN6
YGIN5
YGIN4
YGIN3
YGIN2
UBIN9
UBIN8
UBIN7
UBIN6
UBIN5
UBIN4
UBIN3
UBIN2
UBIN1
UBIN0
YGIN1
YGIN0
DV15
K1KA60A00162
TO
DG-BOARD
(DG15)
ZA5003
TESA169
ZA5001
K4CD01000011
ZA5005
K4CD01000011
A
B
C
D
E
1
2
3
4
5
6
7
8

THIS IS FOR REFERENCE USE ONLY.
THIS MUST BE REPLACED WITH
AN EXCHANGE BOARD ONLY.

⚠ DV-BOARD TNPA3626

TH-42PM50U
DV-Board Schematic Diagram

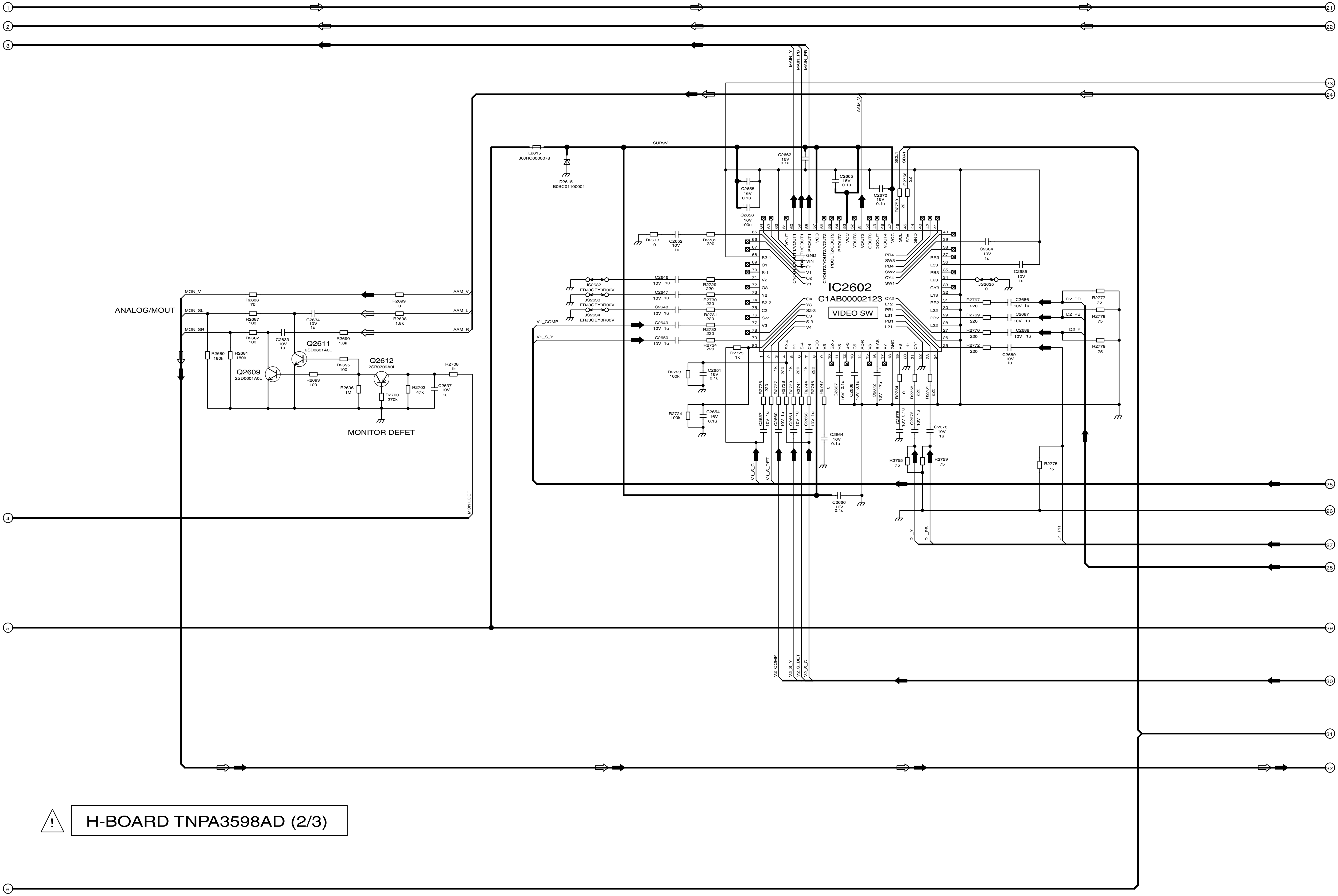
TH-42PM50U
DV-Board Schematic Diagram


IC2608
C1BB00000972
BBE VIVA
TO
Z-BOARD
(Z50)
H50
FOR
FACTORY
USE
H22
TO
DG-BOARD
(DG1)
H1
TO
DG-BOARD
(DG2)
H2
TO
PA-BOARD
(PA30)
H30
TO
K-BOARD
(K1)
H7
Q2618
2SD0601ARL
Q2619
2SD0601ARL
EEPROM
IIC0
SUB DEVICE
IIC1
HIGH SPEED DEVIDE
IIC2
MAIN/PANEL
IIC0B
STB5V
SRQ1
GND
SCL0A
SDA0A
SCL0B
SDA0B
SCL2
SDA2
SCL1
SDA1
RESET
MON_SOUND_DEF
KEYSCAN2
MAIN_DEF
SP_MUTE
LED_R
LED_G
OPT
RM_IN
KEYSCAN
MONI_DEF
KEYSCAN3
SP_SHORT
BA_SCL0
BA_SDA0
BS_SR
BS_SL
AN_V_GND
VIDEO_OUT_GND
MAIN_PR
MAIN_PB
MAIN_Y
HDMI_SL
HDMI_SR
10Vs(W)
12VW
SUB3.3V
MAIN9V
SUB 9V2
MAIN2.5V
SUB 5V
10Vs(S)
STB 5V
MAIN 9V
MAIN_L
MAIN_R
STBY5V_M
SUB5V
REMOCON
A
B
C
D
E
1
2
3
4
5
6
7
8

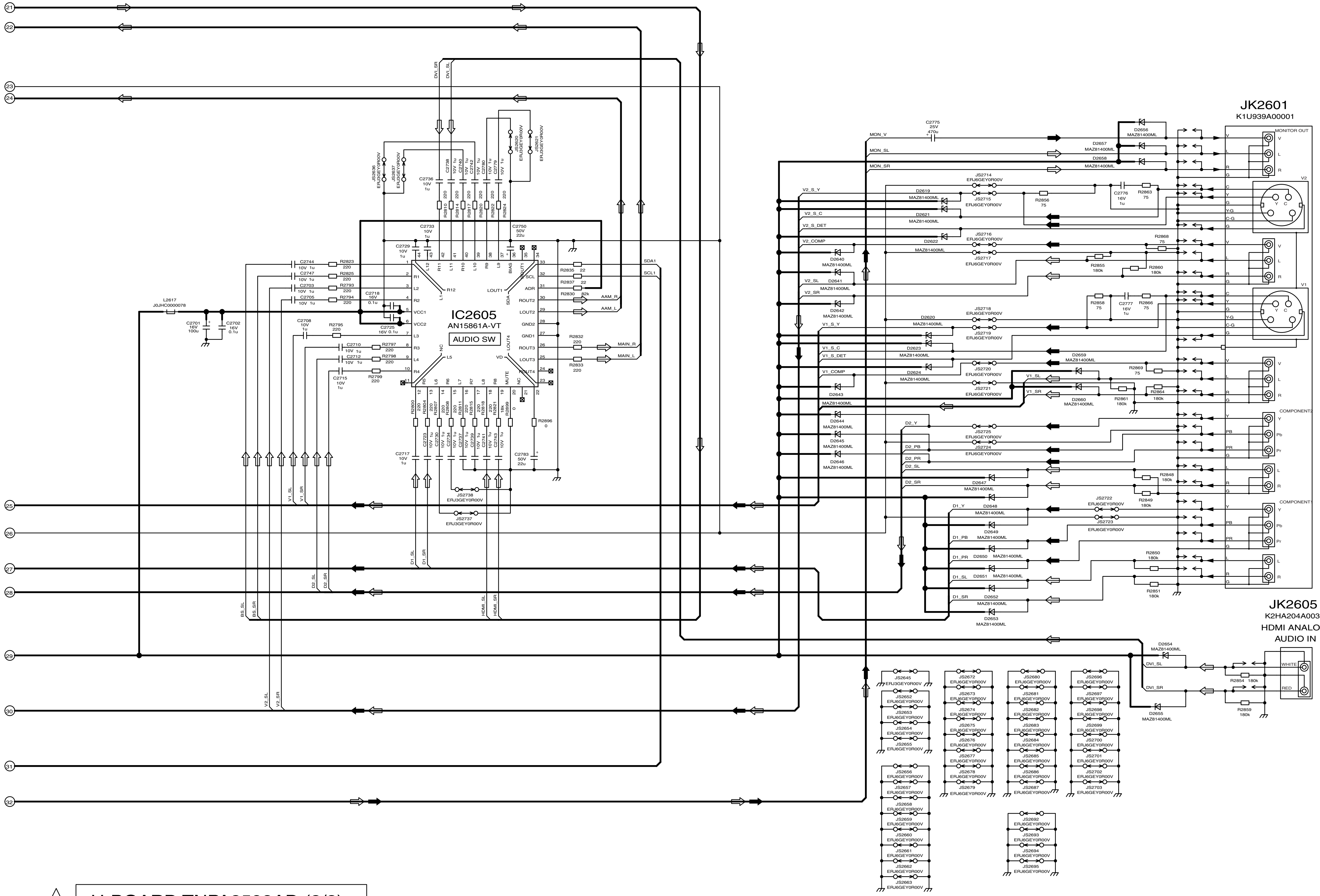
H-BOARD TNPA3598AD (1/3)

TH-42PM50U
H-Board (1 of 3) Schematic Diagram

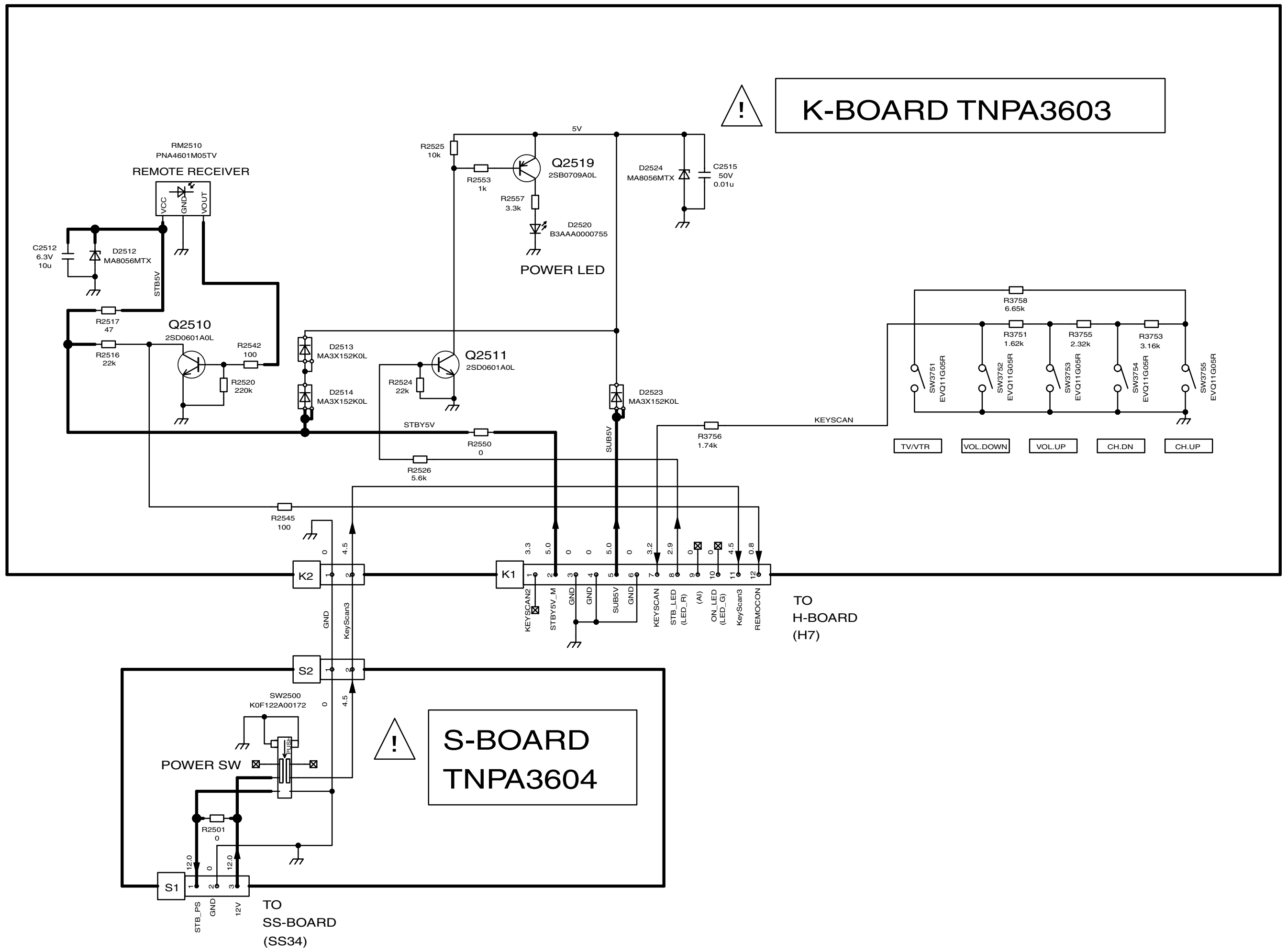
TH-42PM50U
H-Board (1 of 3) Schematic Diagram


1
2
3
4
5
6
21
22
23
24
25
26
27
28
29
30
31
32
MAIN_Y
MAIN_PB
MAIN_PR
AAM_V
SUB9V
L2615
J0JHC0000078
D2615
B0BC01100001
ANALOG/MOUT
MON_V
MON_SL
MON_SR
AAM_V
AAM_L
AAM_R
R2686 75
R2699 0
R2687 100
C2634 10V 1u
R2698 1.8k
R2682 100
C2633 10V 1u
R2690 1.8k
R2680 180k
R2681 180k
Q2611 2SD0601A0L
Q2609 2SD0601A0L
Q2612 2SB0709A0L
R2695 100
R2693 100
R2696 1M
R2700 270k
R2702 47k
C2637 10V 1u
R2708 1k
MONITOR DEFET
MONI_DEF
IC2602
C1AB00002123
VIDEO SW
C2662 16V 0.1u
C2655 16V 0.1u
C2656 16V 100u
C2665 16V 0.1u
C2670 16V 0.1u
SCL1
SDA1
R2753 22
R2756 22
R2673 0
C2652 10V 1u
R2735 220
JS2632 ERJ3GEY0R00V
JS2633 ERJ3GEY0R00V
JS2634 ERJ3GEY0R00V
V1_COMP
V1_S_Y
C2646 10V 1u
C2647 10V 1u
C2648 10V 1u
C2649 10V 1u
C2650 10V 1u
R2729 220
R2730 220
R2731 220
R2733 220
R2734 220
R2725 1k
R2723 100k
C2651 16V 0.1u
R2724 100k
C2654 16V 0.1u
R2736 220
R2737 1k
R2738 220
R2739 1k
R2741 220
R2744 1k
R2746 220
R2747 0
C2657 10V 1u
C2660 10V 1u
C2661 10V 1u
C2663 10V 1u
C2664 16V 0.1u
C2666 16V 0.1u
C2667 16V 0.1u
C2668 16V 0.1u
C2672 16V 47u
R2754 0
R2758 220
R2761 220
C2675 16V 0.1u
C2676 10V 1u
C2678 10V 1u
R2755 75
R2759 75
R2775 75
V1_S_C
V1_S_DET
D1_Y
D1_PB
D1_PR
V2_COMP
V2_S_Y
V2_S_DET
V2_S_C
C2684 10V 1u
C2685 10V 1u
JS2635 0
R2767 220
R2769 220
R2770 220
R2772 220
C2686 10V 1u
C2687 10V 1u
C2688 10V 1u
C2689 10V 1u
D2_PR
D2_PB
D2_Y
R2777 75
R2778 75
R2779 75
VOUT
CYOUT1/YOUT1/VOUT1
PBOUT1/COUT1
PROUT1
VCC
CYOUT2/YOUT2/VOUT2
PBOUT2/COUT2
PROUT2
YOUT3
VOUT3
COUT3
DCOUT
VOUT4
SCL
SDA
GND
VIN
O1
V1
O2
Y1
S2-1
C1
S-1
V2
O3
Y2
S2-2
C2
S-2
V3
O4
Y3
S2-3
C3
S-3
V4
S2-4
Y4
S-4
C4
V5
S2-5
Y5
S-5
C5
ADR
V6
BIAS
V7
V8
L11
CY1
PR4
SW3
PB4
SW2
CY4
SW1
PR3
L33
PB3
L23
CY3
L13
CY2
L12
PR1
L31
PB1
L21
PR2
L32
PB2
L22

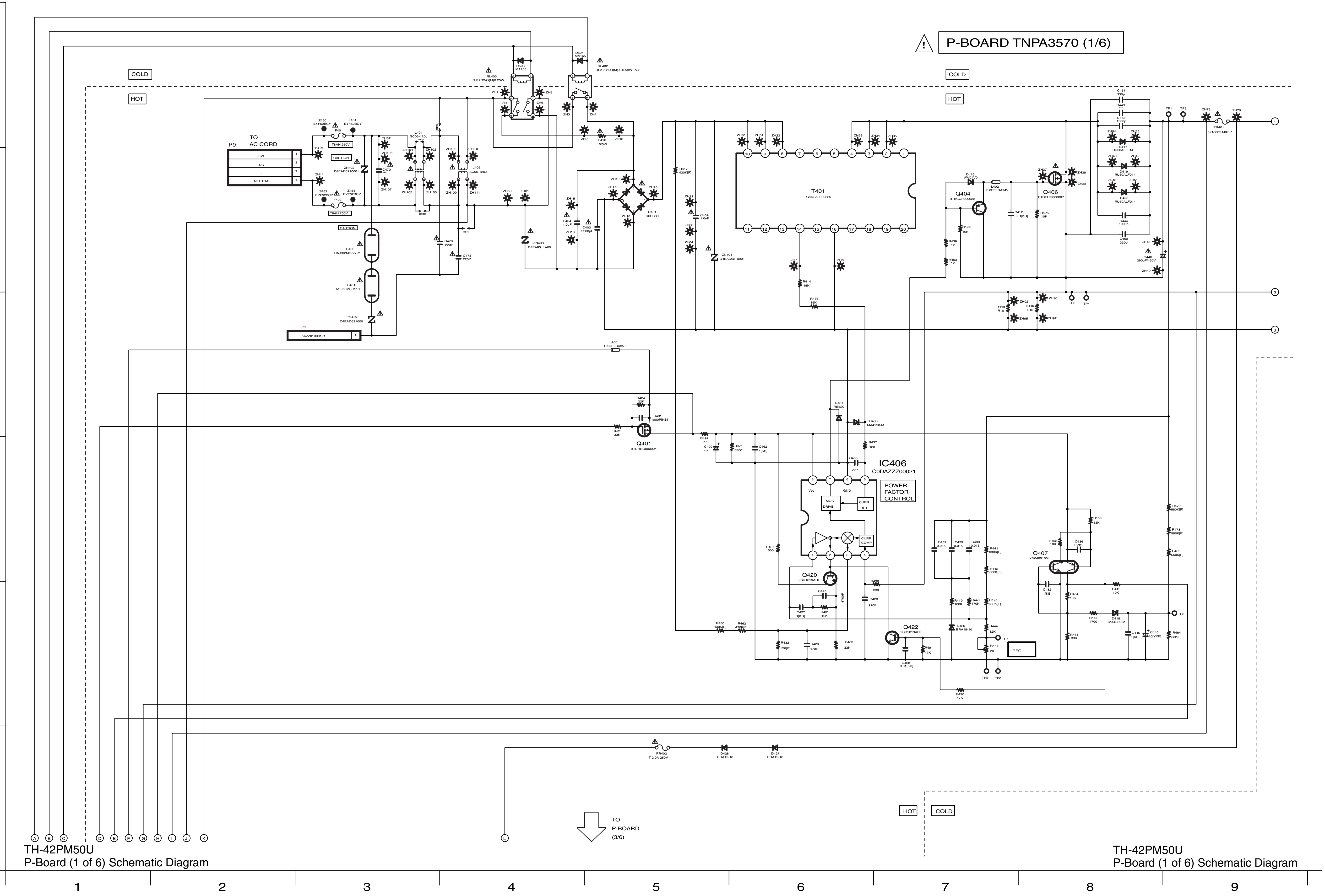
H-BOARD TNPA3598AD (2/3)


IC2605
AN15861A-VT
AUDIO SW
JK2601
K1U939A00001
MONITOR OUT
VIDEO2 IN
VIDEO1 IN
COMPONENT2 IN
COMPONENT1 IN
JK2605
K2HA204A0038
HDMI ANALOG AUDIO IN
WHITE
RED
L2617
J0JHC0000078
C2701 16V 100u
C2702 16V 0.1u
C2775 25V 470u
MON_V
MON_SL
MON_SR
V2_S_Y
V2_S_C
V2_S_DET
V2_COMP
V2_SL
V2_SR
V1_S_Y
V1_S_C
V1_S_DET
V1_COMP
V1_SL
V1_SR
D2_Y
D2_PB
D2_PR
D2_SL
D2_SR
D1_Y
D1_PB
D1_PR
D1_SL
D1_SR
DVI_SL
DVI_SR
HDMI_SL
HDMI_SR
BS_SL
BS_SR
SDA1
SCL1
AAM_R
AAM_L
MAIN_R
MAIN_L
MAZ81400ML
ERJ6GEY0R00V
ERJ3GEY0R00V
21
22
23
24
25
26
27
28
29
30
31
32

H-BOARD TNPA3598AD (3/3)


K-BOARD TNPA3603
RM2510
PNA4601M05TV
REMOTE RECEIVER
VCC
GND
VOUT
C2512
6.3V
10u
D2512
MA8056MTX
STB5V
R2517
47
R2516
22k
Q2510
2SD0601A0L
R2542
100
R2520
220k
D2513
MA3X152K0L
D2514
MA3X152K0L
R2525
10k
R2553
1k
Q2519
2SB0709A0L
R2557
3.3k
D2520
B3AAA0000755
POWER LED
5V
D2524
MA8056MTX
C2515
50V
0.01u
Q2511
2SD0601A0L
R2524
22k
D2523
MA3X152K0L
STBY5V
R2550
0
R2526
5.6k
SUB5V
R3756
1.74k
KEYSCAN
R3758
6.65k
R3751
1.62k
R3755
2.32k
R3753
3.16k
SW3751
EVQ11G05R
SW3752
EVQ11G05R
SW3753
EVQ11G05R
SW3754
EVQ11G05R
SW3755
EVQ11G05R
TV/VTR
VOL.DOWN
VOL.UP
CH.DN
CH.UP
R2545
100
K2
1
2
0
4.5
GND
KeyScan3
K1
1
2
3
4
5
6
7
8
9
10
11
12
3.3
5.0
0
0
5.0
0
3.2
2.9
0
0
4.5
0.8
KEYSCAN2
STBY5V_M
GND
GND
SUB5V
GND
KEYSCAN
STB_LED
(LED_R)
(AI)
ON_LED
(LED_G)
KeyScan3
REMOCON
TO
H-BOARD
(H7)
S2
1
2
0
4.5
S-BOARD
TNPA3604
SW2500
K0F122A00172
PUSH
POWER SW
R2501
0
S1
1
2
3
12.0
0
12.0
STB_PS
GND
12V
TO
SS-BOARD
(SS34)

P-BOARD TNPA3570 (1/6)



A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
COLD
HOT
P9
TO AC CORD
LIVE
NC
NEUTRAL
F401 T8AH 250V
F402 T8AH 250V
CAUTION
Z450 EYF52BCY
Z451 EYF52BCY
Z452 EYF52BCY
Z453 EYF52BCY
ZN402 D4EAD6210001
L404 SC06-120J
L405 SC06-120J
S402 RA-362MS-V7-Y
S401 RA-362MS-V7-Y
ZN404 D4EAD6210001
Z2 K4ZZ01000121
C476 220P
C473 220P
RL403 DJ12D2-O(M)0.25W
D503 MA165
D504 MA165
RL402 DG12D1-O(M)-2 0.53W TV-8
R410 10/5W
ZN403 D4EA8511A001
C404 1.0uF
C403 2200pF
D401 D6SB80
R417 430K[F]
C409 1.0uF
ZN401 D4EAD6210001
T401 G4D2A0000229
R414 15K
R436 15K
Q404 B1BCCF000022
D415 AW04V0
L402 EXCELSA24V
C412 0.01[KB]
Q406 B1DEHQ000007
R426 10K
R428 10K
R439 12
R493 12
C461 330p
C449
C443 1000p
D417 RU30ALF014
D419 RU30ALF014
D420 RU30ALF014
C444 1000p
C460 330p
C446 390uF/450V
PR401 0216005.MXEP
TP1
TP2
TP3
TP4
R448 R10
R449 R10
L403 EXCELSA35T
R424 22K
C431 1000P[KB]
R421 33K
Q401 B1CHND000004
R492 22
C499
R471 3300
C462 1[KB]
D431 RB520
D433 MA4150-M
R437 18K
C463 22P
IC406
C0DAZZZ00021
POWER FACTOR CONTROL
Vcc
GND
MOS DRIVE
CURR DET
CURR COMP
R467 1000
Q420 2SD1819ARL
C423
C427 1[KB]
R431 10K
R438 330
C428 220P
R430 430K[F]
R462 430K[F]
R433 12K[F]
C426 470P
R463 33K
Q422 2SD1819ARL
C468 0.01[KB]
R491 47K
C459 0.015
C429 0.015
C430 0.015
R441 680K[F]
R442 680K[F]
R475 680K[F]
R419 100K
R440 470K
D429 ERA15-10
R444 12K
R443 2K
TP7
TP5
TP6
PFC
R490 47K
Q407 XN0460100L
R456 33K
R452 10K
C436 1[KB]
C432 1[KB]
R454 10K
R415 10K
R458 4700
D418 MA4082-M
R451 33K
C445 1[KB]
C440 10[YXF]
TP8
R464 33K[F]
R472 560K[F]
R473 560K[F]
R465 560K[F]
PR402 T 2.0A 250V
D428 ERA15-10
D427 ERA15-10
TO P-BOARD (3/6)

TH-42PM50U
P-Board (1 of 6) Schematic Diagram

TH-42PM50U
P-Board (1 of 6) Schematic Diagram